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MY HOME – System integration and control

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System integration

The integration among the various MY HOME system gives the following advantages:

- it allows to perform advanced functions resulting from the interaction among different systems. Some examples: the possibility of switching the lights on when the Burglar-alarm system detects an alarm condition, of automatically reducing the volume of the music broadcasted when a door entry system call is received, and the switching off of the heating inside a room when a opened is opened while doing housework.
- It makes it possible to centrally control all the functions using local and remote management devices. In this way, it will be possible to check all the systems installed using only one Touch screen device positioned, for example, in the corridor or in the living room. Also, when away from home, it will be possible to check and manage the MY HOME functions using a PC or a mobile device connected to the internet. Integration is achieved using appropriate interfaces that connect the BUS of the various systems to each other.

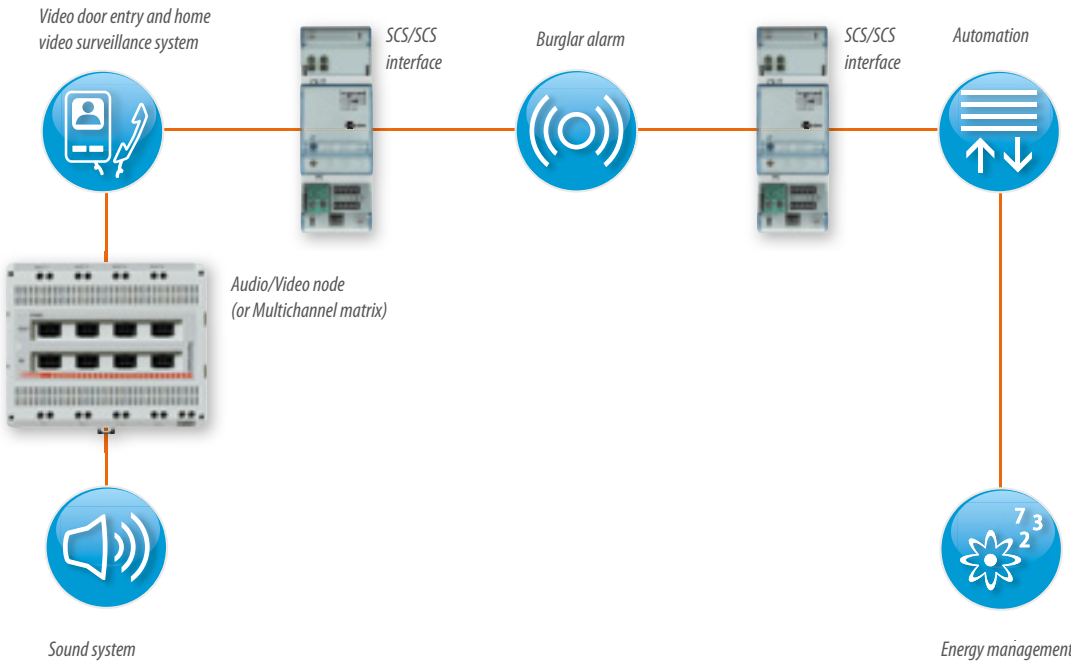
The picture below shows the local control devices of the MY HOME systems.

Mode of integration

There are two modes of integration:

- Integration among the various MY HOME systems;
- Integration between MY HOME systems and systems using other communication protocols (e.g. DALI, Konnex, and EIB), or other applications using the BTicino Open Web Net protocol.

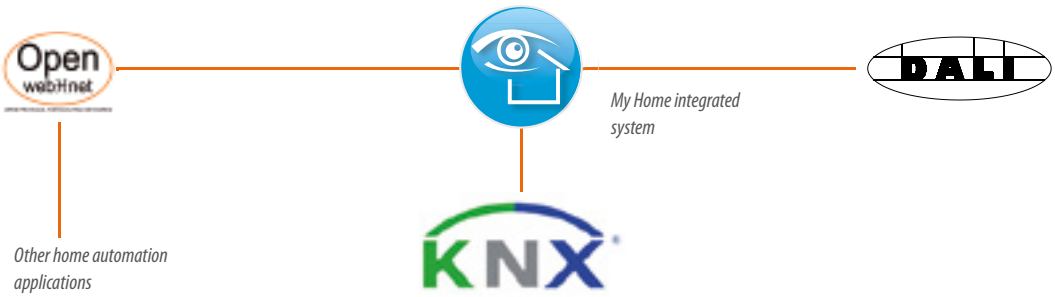
INTEGRATION AMONG MY HOME SYSTEMS



Integration is achieved as follows:

- By sharing of the same BUS wiring, as indicated in the description of each individual system.
- Using integration interfaces for those cases when the devices of different systems cannot share the same wiring. This is for example the case of the burglar-alarm system and the automation system, the which corresponding BUS can only be connected to each other using a specific interface.

INTEGRATION BETWEEN MY HOME SYSTEM AND APPLICATIONS WITH DIFFERENT PROTOCOLS



Integration and interfacing devices

Integration is possible thanks to the use of specific interfacing devices that enable performing advanced home automation functions resulting from the synergy of the systems connected to each other.

The BTicino range of system integration devices consists of:

- SCS/SCS interface - F422 (2 DIN)
- Audio/video node - F441 (6 DIN)
- Multichannel matrix - F441M (10 DIN)

Using specific interfaces, MY HOME can also be integrated with systems with different communication protocols and technology, like for example Konnex and EIB. The devices are the following:

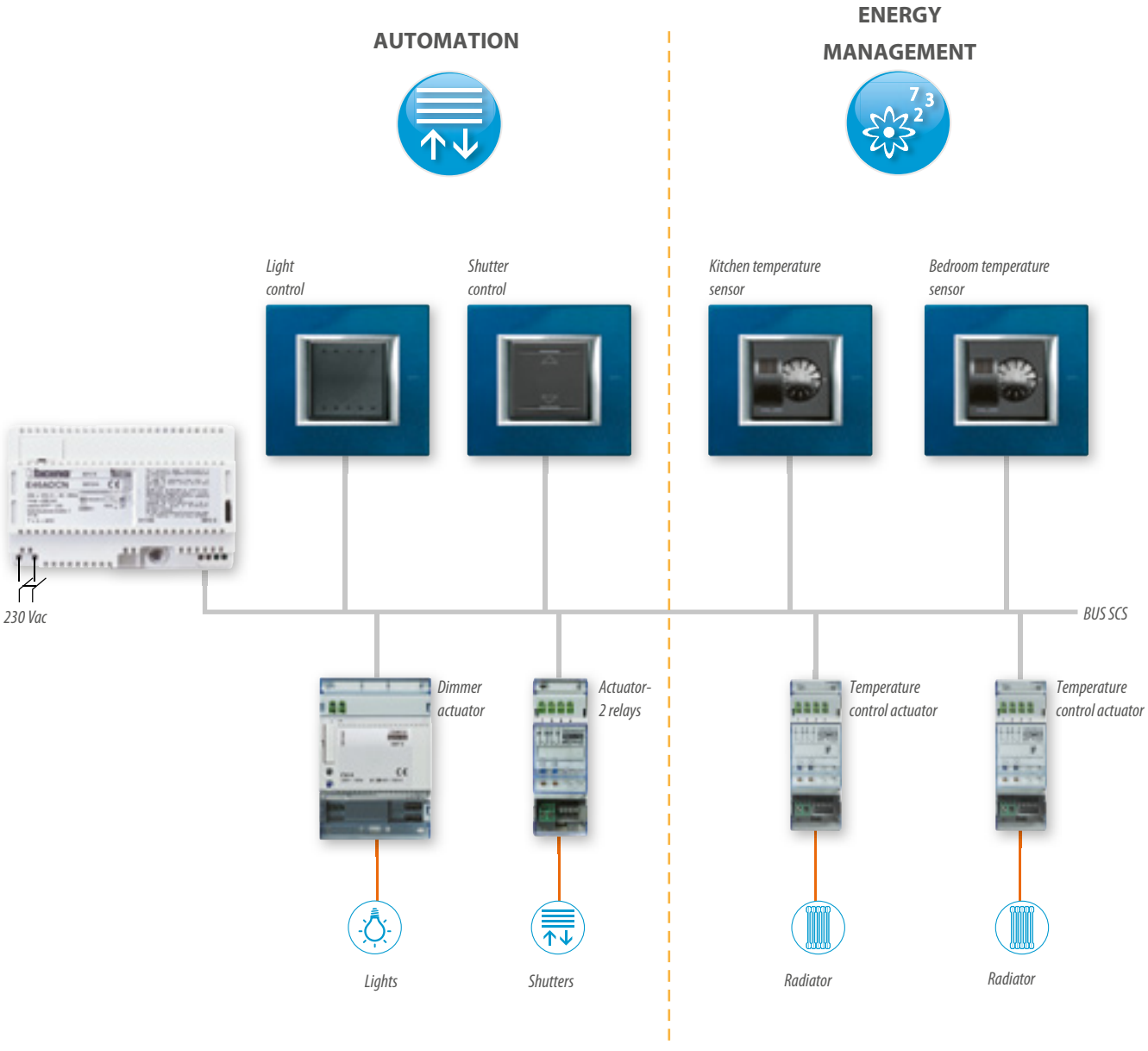
- SCS/KNX interface F427;
- SCS/EIB interface F426;
- SCS/DALI interface F429.

INTERFACES FOR INTEGRATION WITH DIFFERENT STANDARDS AND PROTOCOLS

Integration among MY HOME systems

AUTOMATION AND ENERGY MANAGEMENT SYSTEM

The integration between the Automation and the Energy management system is achieved without the need for an interface. This is because the devices share the same BUS cable and power supply.

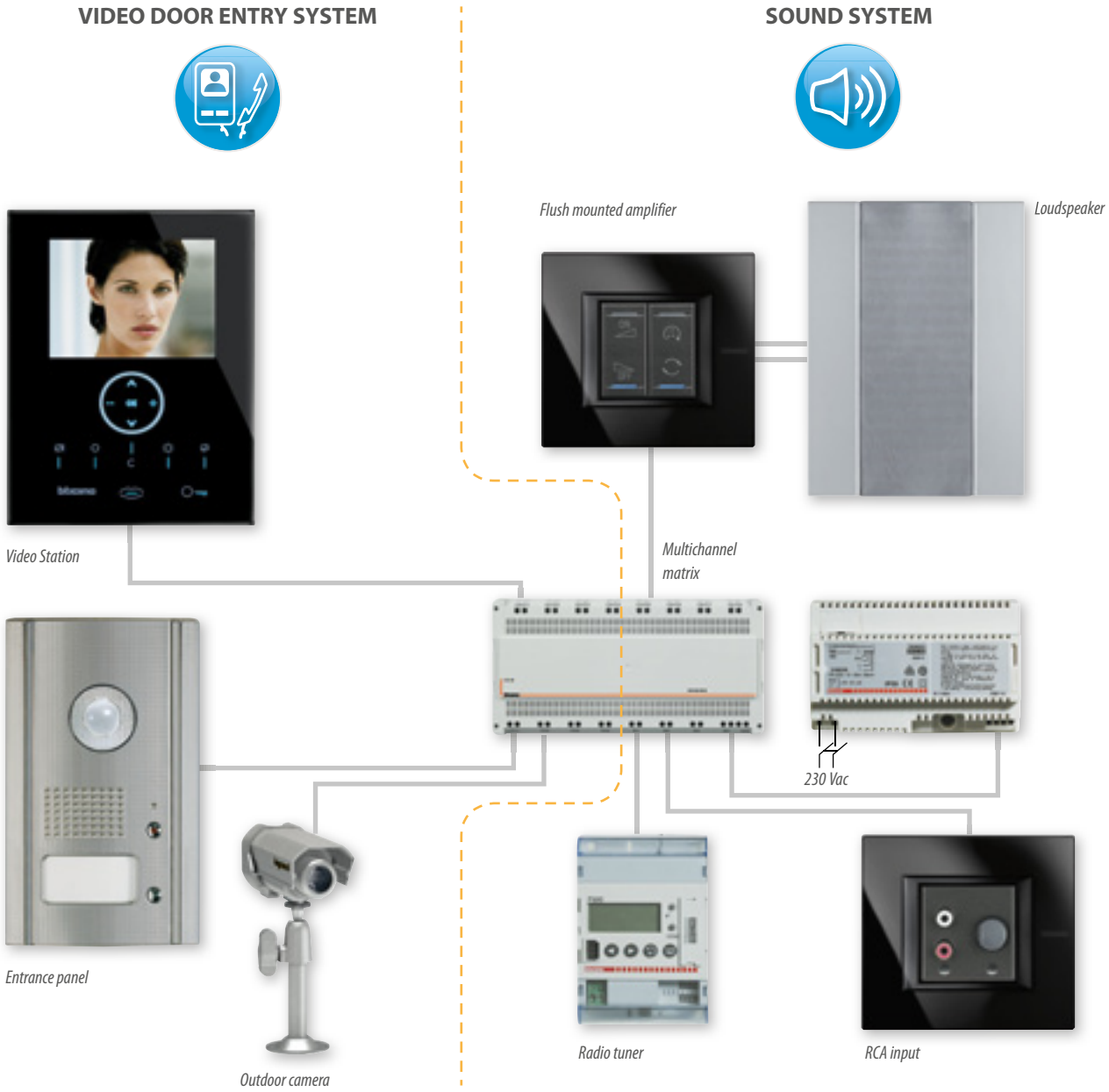


Integration among MY HOME systems

VIDEO DOOR ENTRY SYSTEM AND SOUND SYSTEM

The integration between the video door entry system and the sound system is achieved using the Audio/Video node, item F441, or the multichannel matrix, item F441M. The power supply is the same for both systems.

The sound system may be controlled, for example, from the video station. Also, when a video door entry call is received, the system automatically decreases the volume of the music being played to enable answering the call.



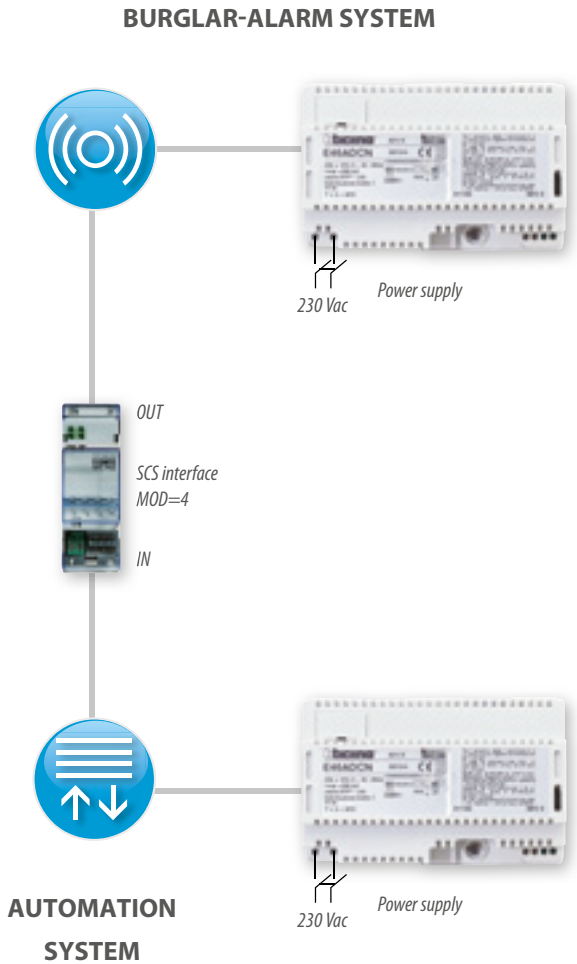
INTEGRATION AMONG ALL THE SYSTEM

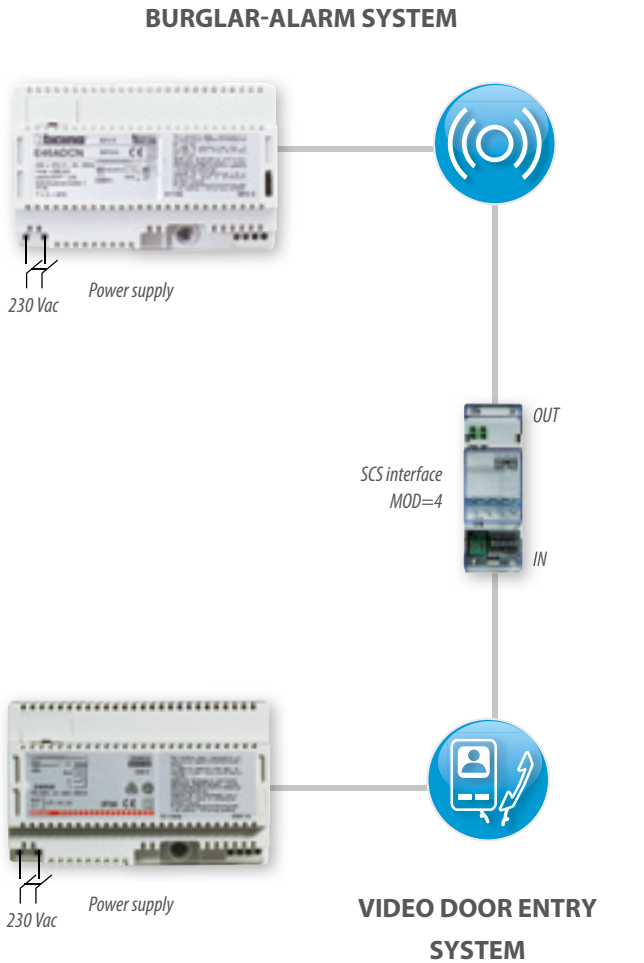
In addition to the interfacing procedures described in the previous pages, MY HOME systems can also be integrated using the F422 SCS/SCS interface configured in two different modes:

- Burglar-alarm: MOD = 4
- Galvanic separation: MOD = 0

MOD=4 BURGLAR-ALARM MODE

The SCS/SCS interface in Burglar-Alarm mode (MOD=4) must be used when integrating the Automation or the Video door entry system with the Burglar-alarm system. Each system has a dedicated power supply.



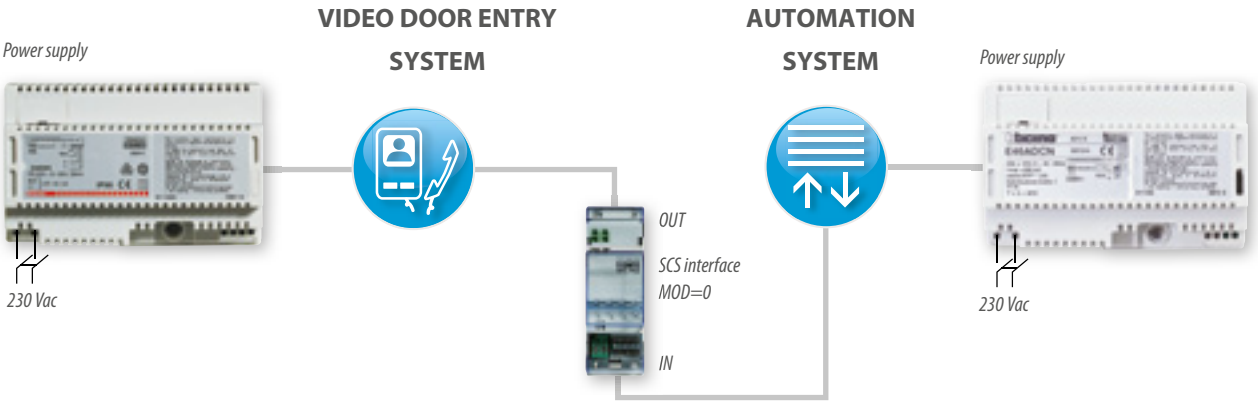


Integration among MY HOME systems

MOD=0 GALVANIC SEPARATION

The SCS/SCS interface in Galvanic separation mode (MOD=0) must be used when interfacing the Automation or Energy management system with the Video door entry system or the Sound system.

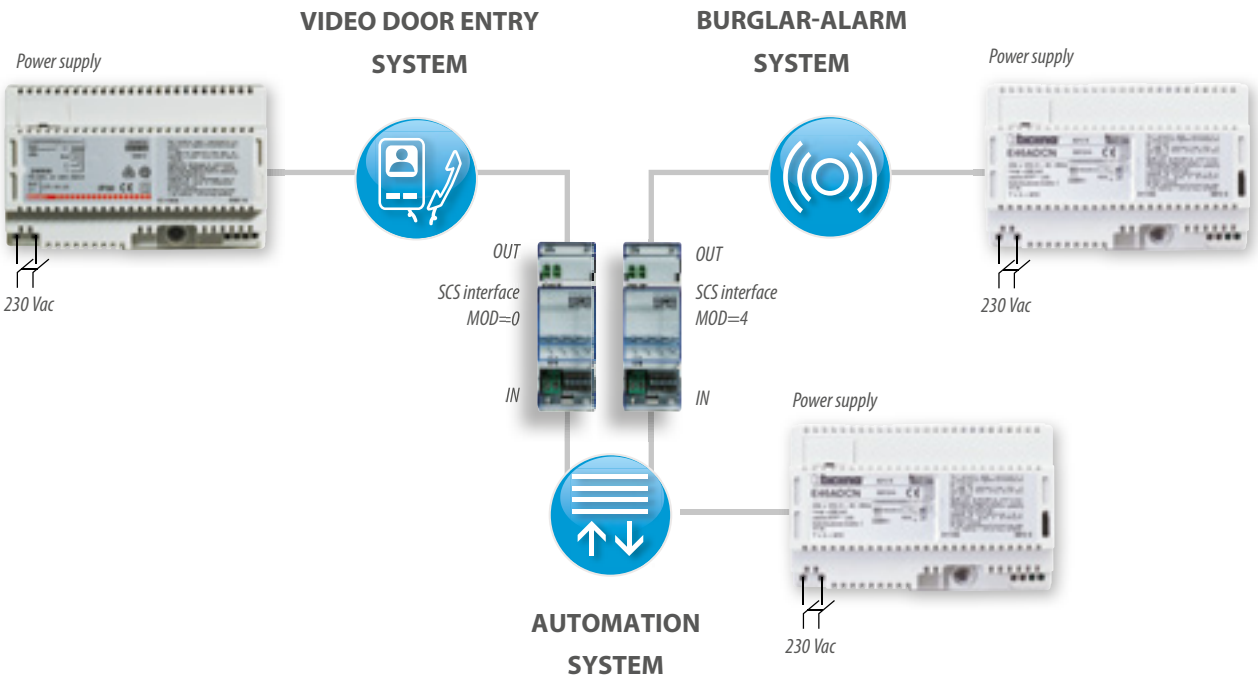
Each system has a dedicated power supply.



USING BOTH MODES, MOD=0 AND MOD=4

The two modes described may be used together when integrating different systems and performing advanced functions.

For example, the integration of the Video door entry system with the Automation and Burglar-alarm systems enable displaying the areas of the home in alarm status using the monitor of the video handset; at the same time as the activation of the siren, all the lights inside the home will also come on.

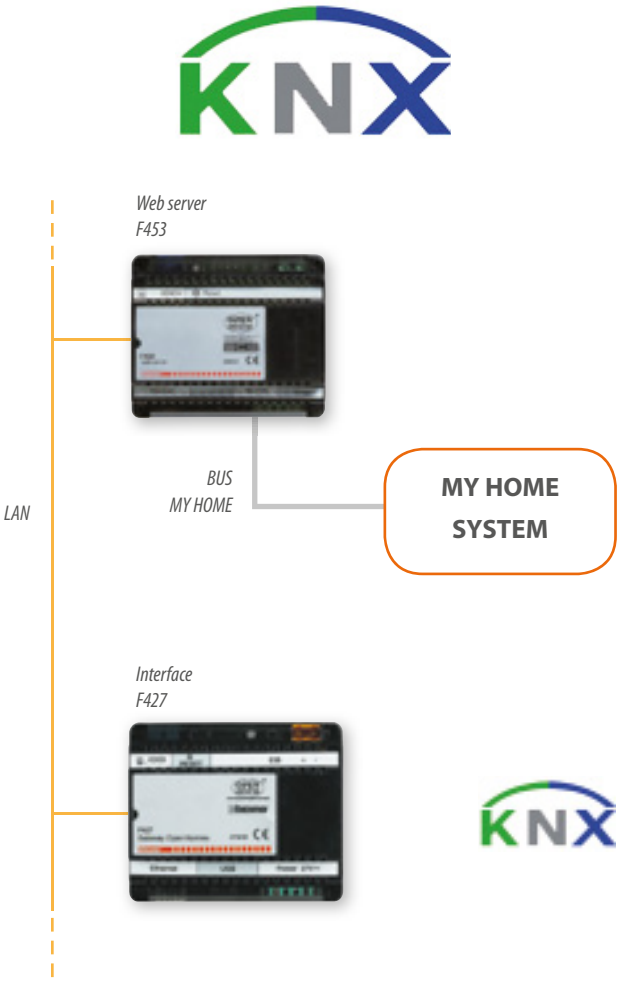


Integration between MY HOME and systems with different protocols

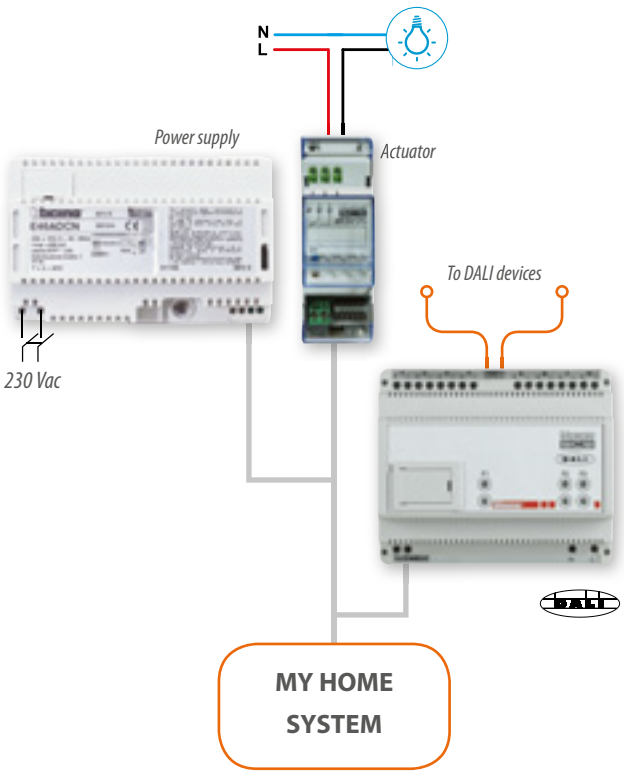
In order to integrate the MY HOME system with systems with different communication protocols, 3 devices are available:

- SCS/KNX interface for the integration of MY HOME with Konnex protocol based systems;
- SCS/KNX interface for the integration of MY HOME with EIB protocol based systems;
- SCS/DALI interface for the integration of MY HOME with lighting DALI protocol based systems;

Interfacing with other external protocols is also possible using the OPEN WEB NET communication protocol, purposely designed by BTicino for the exchange of information and controls with devices compatible with this language.
For more information visit the website www.myopen-legrandgroup.com or see the following pages of this guide.



Interfacing with KONNEX devices



Interfacing with DALI devices

System control

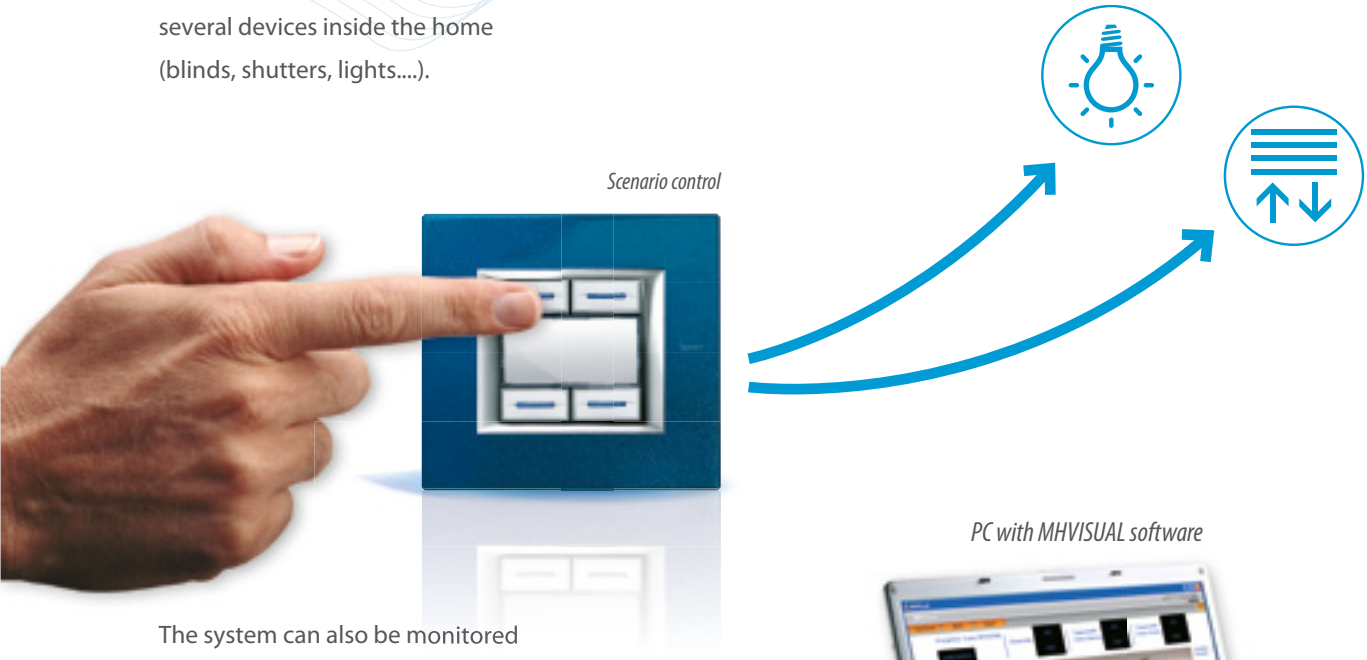
The BTicino MY HOME system can monitor and control your home or office in total safety and privacy. Control can be performed locally using the various tools, such as a simple command sent using the TOUCH SCREEN, or remotely using the PC, a hand-held computer,telephone or mobile phone.

Mobile access

LOCAL CONTROL

The system can command and control the MY HOME system, using the controls installed inside the home. A single movement controls several devices inside the home (blinds, shutters, lights....).

Scenario control



The system can also be monitored and controlled using a PC with MHVISUAL software. With a simple customisable graphic interface it is possible to control lights and shutters, view images from cameras installed in the various rooms, check the temperature and check any alarms (remotely, when away from the premises where the MY HOME system is installed)

PC with MHVISUAL software

REMOTE CONTROL

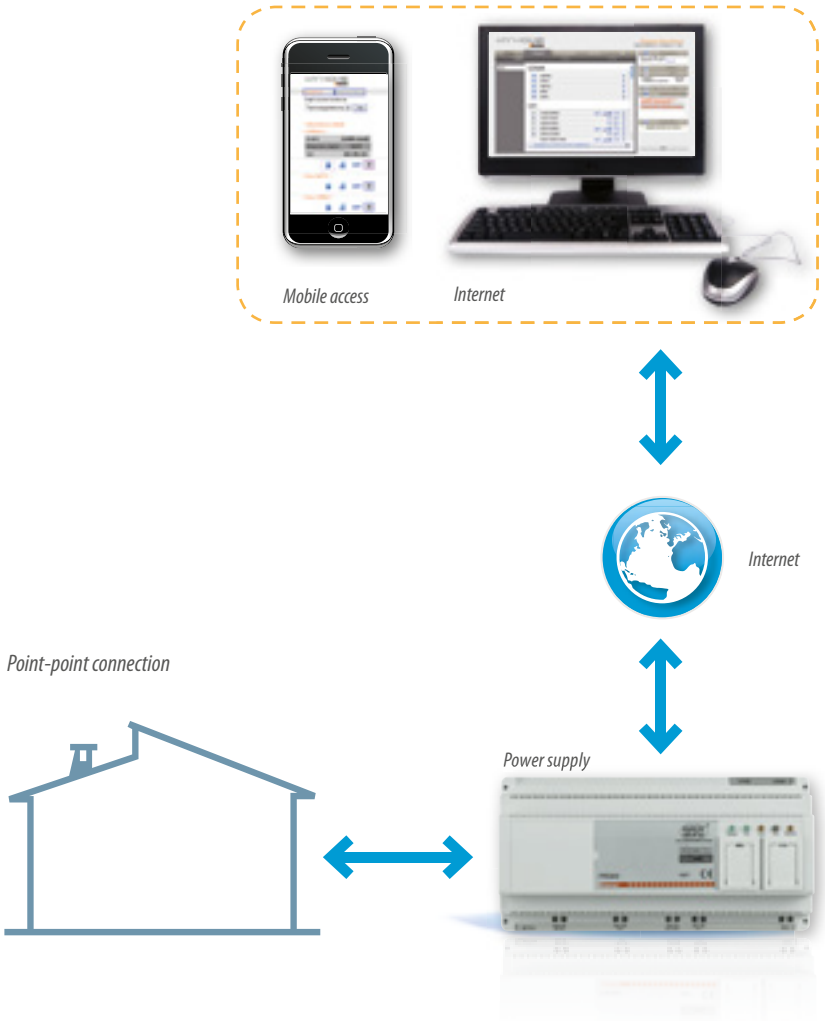
The system can be controlled and monitored remotely (when away from the premises where the MY HOME system is installed) using the MY HOME WEB portal or an internet point-point connection. The extremely quick, private and safe system provides control of your home from anywhere, also performing the CCTV functions and monitoring the burglar-alarm system (sending SMS messages or e-mails with attachments)
Remote connection can be achieved in two different ways:

- MY HOME WEB service

The connection to the system is ensured using the MY HOME WEB portal. This is the virtual platform for remote management services dedicated to users with a MY HOME system equipped with BTicino remote connection devices.
MY HOME WEB is intended both for installers and users; the installers will be able to offer their customers a remote assistance and remote system diagnostic service. Using a mobile phone or a PC with internet connection, users will be able to remotely control all the home automation functions, like for example the activation of the cameras for the monitoring of the home, the reception of video door entry system calls when away from the home, the activation of the burglar-alarm system and the heating system.

- Point-point connection:

Direct connection to the devices by means of ADSL line.
The ADSL line gives access to the MY HOME system by means of the Internet connecting directly to the fixed IP address of the line dedicated to the control system. This control is performed using dedicated WEB pages.



Local control devices

FUNCTIONS PERFORMED		BASIC CONTROL	SPECIAL CONTROL	SOFT TOUCH CONTROL	KNOB CONTROL	REMOTE CONTROL
		H4652/2 L4652/2 AM5832/2 H4652/3 L4652/3 AM5832/3	H4651M2 L4651M2 AM5831M2	HD4653M2/3 HC4653/2/3 HS4653/2/3	HD4563 HC4563 HS4563 L4563 N4563 NT4563	3529 HD4654 HC4654 HS4654 L/N/NT4654N
LIGHTING	Cyclical ON/OFF	●	●	●		●
	ON/OF control with light intensity adjustment	●	●		●	●
	General, room, and group controls	●	●			●
	Timed controls	●	●			●
AUTOMATION	Shutter control UP/DOWN in normal mode UP/DOWN in safe mode General, room, and group controls	●	●			●
SCENARIO CONTROL	Recalling of scenarios saved in the F420 scenario module		●	●		●
	Activation of scenarios saved in the MH200N scenario programmer (CEN configurator)	●	●	●		●
BURGLAR ALARM	System arming and disarming and separation					
SOUND SYSTEM	Amplifier ON/OFF, track change, and volume adjustment		●	●	●	●
TEMPERATURE CONTROL	Temperature display and zone management					
ENERGY SAVING	Consumption control and display					
	Anti black-out load management					
VIDEO DOOR ENTRY SYSTEM	Control and command of video door entry functions		● Electric door lock release and staircase light control	● Electric door lock release and staircase light control		● Electric door lock release and staircase light control
MULTIMEDIALITY'	Display of network multimedia contents (IP Radio and Media Server)					

TRANSPONDER READER	CAPACITIVE NIGHTER AND WHICE CONTROL	SCENARIO CONTROL	LOCAL DISPLAY	TOUCH SCREEN
HD4607 HC4607 HS4607 L/N/NT4607	HD4657M3/4 HC4657M3/4 HS4657M3/4	HD4680 HC4680 HS4680 L4680 N4680 NT4680	HD4685 HC4685 HS4685 L4685 N4685 NT4685	H4684 L4684 AM5864
				●
	●			●
				●
●				●
				●
●	●	●	●	●
	●	●		●
●				●
	●		●	●
			●	●
				●
				●
				Electric door lock release and staircase light control
				●

Local control devices

FUNCTIONS PERFORMED		MULTIMEDIA TOUCH SCREEN	VIDEO TOUCH SCREEN
		 HD4690 HC4690 HS4690	 H4687
LIGHTING	Cyclical ON/OFF	●	●
	ON/OF control with light intensity adjustment	●	●
	General, room, and group controls	●	●
	Timed controls	●	●
AUTOMATION	Shutter control UP/DOWN in normal mode UP/DOWN in safe mode General, room, and group controls	●	●
SCENARIO MANAGEMENT	Recalling of scenarios saved in the F420 scenario module	●	●
	Activation of scenarios saved in the MH200N scenario programmer (CEN configurator)	●	●
BURGLAR ALARM	System arming and disarming and separation	●	● System status and alarm notification display
SOUND SYSTEM	Amplifier ON/OFF, track change, and volume adjustment	●	●
TEMPERATURE CONTROL	Temperature display and zone management	●	●
ENERGY SAVING	Consumption control and display	●	● (1)
	Anti black-out load management	●	●
VIDEO DOOR ENTRY SYSTEM	Control and command of video door entry functions	●	● Display of camera images
MULTIMEDIALITY	Display of network multimedia contents (IP Radio and Media Server)	●	

Note (1): *function available starting from 2011*

VIDEO HANDSETS		MULTIMEDIA INTERFACE
 349310 349311/12/13	 349320/21	 3465
		●
		●
		●
		●
		●
●	●	●
		●
● System status and alarm notification display	● System status and alarm notification display	●
●	●	●
●	●	●
		●
●	●	●
	● Display of the main screen of the 3465 multimedia interface	● Media Server management

Local control devices

The MY HOME system can be commanded and controlled used various interfaces, from the simplest such as the basic control to the most advanced like the TOUCH SCREEN.

Just one command manages simple functions such as switching on a light and advanced functions such as scenarios (which with just one touch let you switch ON lights, raise shutters, switch on the sound system, set the temperature etc....).

Soft Touch control - 2 modules

TWO AND THREE AXOLUTE SOFT TOUCH CONTROLS

With the simple touch of the control, this device is capable of sending actuation and adjustment commands for the automation, sound system and video door entry system functions.

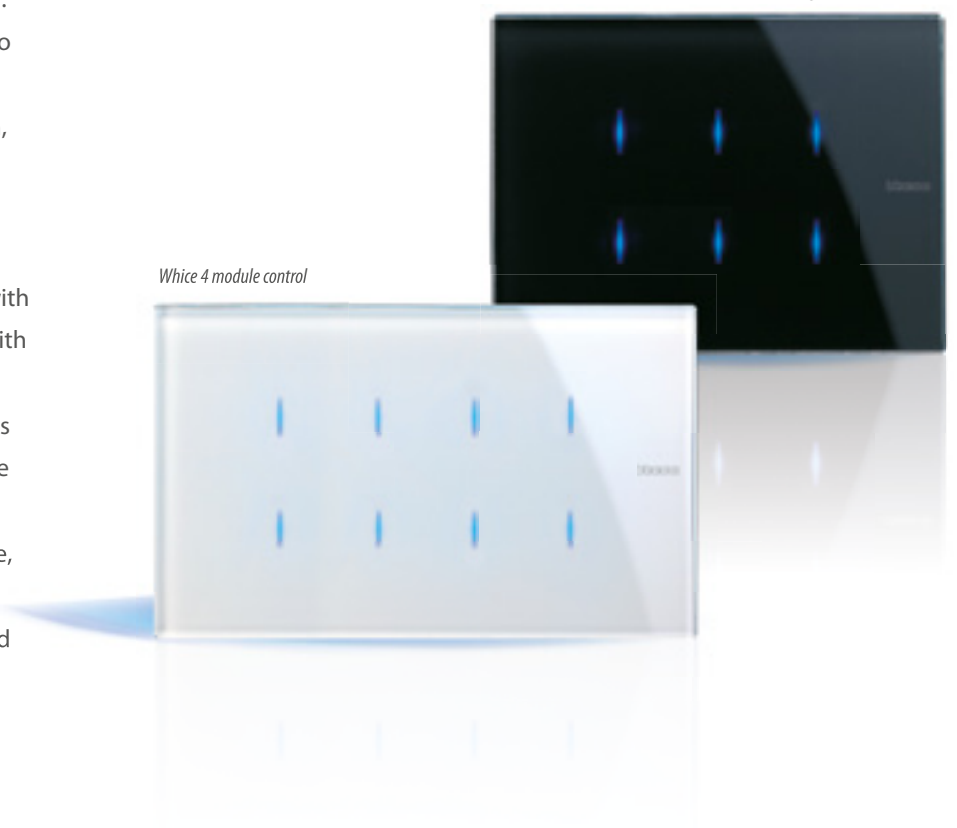
This effect gives the user the feeling of activating the control.
Using the appropriate configurator it is possible to select different intensity levels.

AXOLUTE NIGHTER, WHICE AND WHITE GLASS CONTROLS

The Nighter and Whice control is a control where the traditional pushbuttons are replaced by capacitive sensors
Moving the finger close to a sensor is the same as pressing a pushbutton.
The device can therefore be used to control single or group loads (e.g. Lights and Shutters), sound system, scenarios, and basic door entry system functions.

Nighter 3 module control

Whice 4 module control



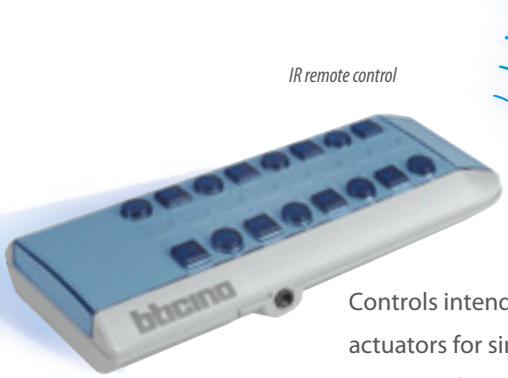
It's manufactured in the versions with 3 and 4 flush mounted modules, with 6 and 8 keys respectively.
Each zone corresponding to a key is marked at the centre by a light blue LED.
When the user moves a finger close, its intensity increases sensibly, and remains so until the finger is moved away again.

INFRARED CONTROLS

IR receiver and new IR remote control: with the receiver,manual control can be replaced or integrated with a remote control, using the infrared remote control item 3529

IR receiver

IR remote control

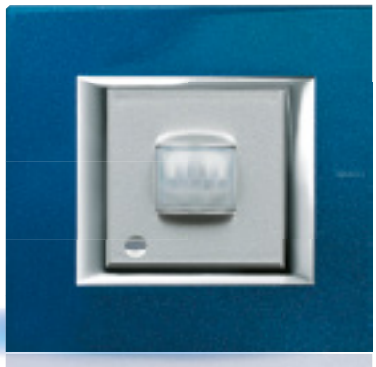


Controls intended for 1-relay actuators for single loads and 2-relay actuators for double loads (shutter motor etc.), scenario managements, Sound system and Video door entry system

PASSIVE IR DETECTOR

The volumetric passive infrared rays detector, sensitive to body heat, offers the advantage of performing a command, including time delayed command, as soon as a person enters the controlled area (e.g. switching a light on).

Passive IR detector



CODE PROTECTED CONTROL

When used in the Automation system, the device created for arming/disarming the Burglar-alarm system can be used to manage basic and advanced controls, which are protected and can be activated using a transponder badge.

Code protected control

Transponder

Local control devices

LOCAL DISPLAY

TOUCH SCREEN OLED technology control device for the control of the Automation (scenario management), Temperature control and Sound system functions of the MY HOME system.

Local display

TOUCH SCREEN

This is a room control for all the MY HOME functions. It is possible to switch the lights on and off, lower or rise the shutters, control garden watering, adjust the temperature in the various rooms, etc., and to automatically activate scenarios based on logic or time conditions.
The display shows a "home page", inside which the applications that can be managed are graphically represented.
Touch the icon for the application to be managed (e.g. Lighting) to display a page with the included and customised icons for the light points. Again, with a simple touch on the icon chosen, the lamp or lamps associated with it will switch on or off.

Touch Screen

MHVISUAL AND VIDEO TOUCH SCREEN

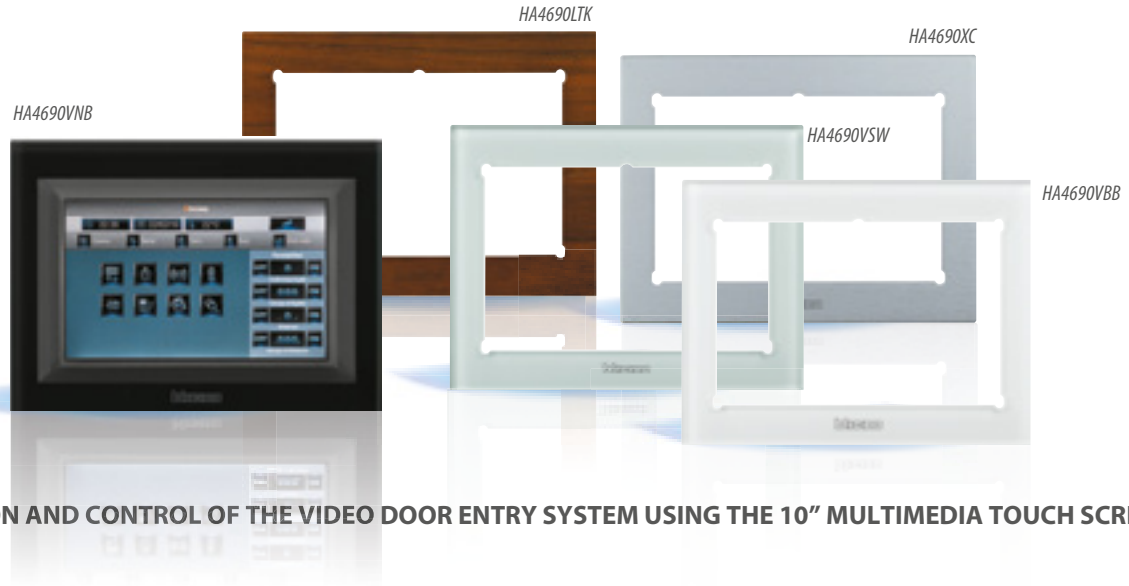
The MHVISUAL applications enable, using a graphic interface that can be easily customised, to control the MY HOME system devices through a VIDEO TOUCH SCREEN or a generic PC.
The program gives the possibility of creating a graphic representation of the system to be controlled, where the actual devices are represented by preset, and fully customisable icons. At any time, it will be possible to control the status of the lighting, automation and burglar-alarm system, to activate the HOME VIDEO SURVEILLANCE SYSTEM, and manage the saved scenarios.

MHVISUAL communicates with the MY HOME systems using an Ethernet card fitted in the VIDEO TOUCH SCREEN and the generic PC for access to one or more WEB Servers.

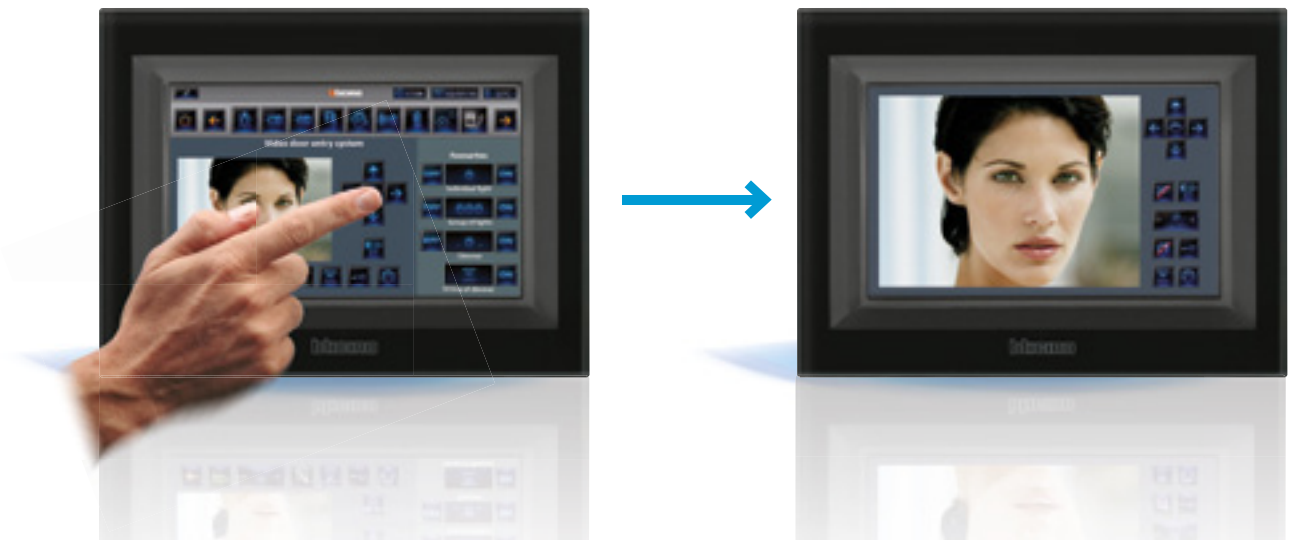
Video Touch Screen with MHVISUAL software

10" MULTIMEDIA TOUCH SCREEN

Within the range of BTicino MY HOME home automation system control products is the Multimedia Touch Screen. Thanks to the 10" 16/9 LCD screen with Touch Screen technology, a touch of the simple and intuitive icons is enough to easily managed all the home automation functions, like, for example, the automation of lights and shutters, the display of energy consumption levels, and the monitoring of the burglar-alarm system status.
Using Multimedia Touch Screen it is also possible to answer video door entry system calls, and visually monitor all the rooms inside the house using the cameras of the MY HOME system.
In addition to the described functions, there is also the possibility of managing, together with the Sound system, multimedia contents such as audio, video and pictures available from external sources connected to a USB port, or an SD card connector, or by connecting the device to a home data network with ADSL internet connection. In this case, it will also be possible, using appropriate icons of the Home Page, to take advantages of RSS services such as News and weather forecasts, display Webcam images, and listen to the radio through the internet.
Available in three finishes, anthracite grey (HS4690), metallic grey (HC4690), and white (HD4690), the device is completed by teak, brushed or white aluminium, or Nighter & Whice glass front cover plates.



SUPERVISION AND CONTROL OF THE VIDEO DOOR ENTRY SYSTEM USING THE 10" MULTIMEDIA TOUCH SCREEN



Local control devices

Video Station

Video Display

VIDEO DISPLAY AND VIDEO STATION

Devices created for managing the video door entry system functions, the VIDEO DISPLAY and the VIDEO STATION, if installed in integrated MY HOME systems (Automation with Video door entry system, Burglar-alarm, Temperature control, etc.), they are capable of managing the home automation functions by activating the customisable menus, displayed on a colour LCD screen.
As far as the Automation functions are concerned, both devices can be used to activate an appropriate menu, and the scenarios saved in the Scenario module, item F420.
This is not a TOUCH SCREEN device.

Nighter Video Station

Whice Video Station

NIGHTER & WHICE VIDEO STATION

Handset that can be installed in 2 wire video systems, with 8" colour LCD display.
It's integrated in the MY HOME system, and manages the following functions: Video door entry system, Temperature control, Sound system, Scenarios, Alarms.
All the home automation functions are managed using the customisable menus found on the display.
This is not a TOUCH SCREEN device.

MULTIMEDIA INTERFACE

When integrated in a MY HOME system, Video Station Nighter and Whice become the control points of the whole system. In addition, when compared with traditional Video Stations, Nighter and Whice can interact with the multimedia interface, providing management of multimedia contents and external devices (PC, DVD players, etc.).

The icon menu of the multimedia interface can be displayed and managed using the television set, as well as the Nighter and Whice Video Station.

It is possible to connect to the multimedia interface devices such as DVD and MP3 player and PC, using them as the multimedia sources of the MY HOME system.

TV

Personal Computer

MP3

Video door entry system:
AXOLUTE Nighter & Whice Video Station

Multimedia interface

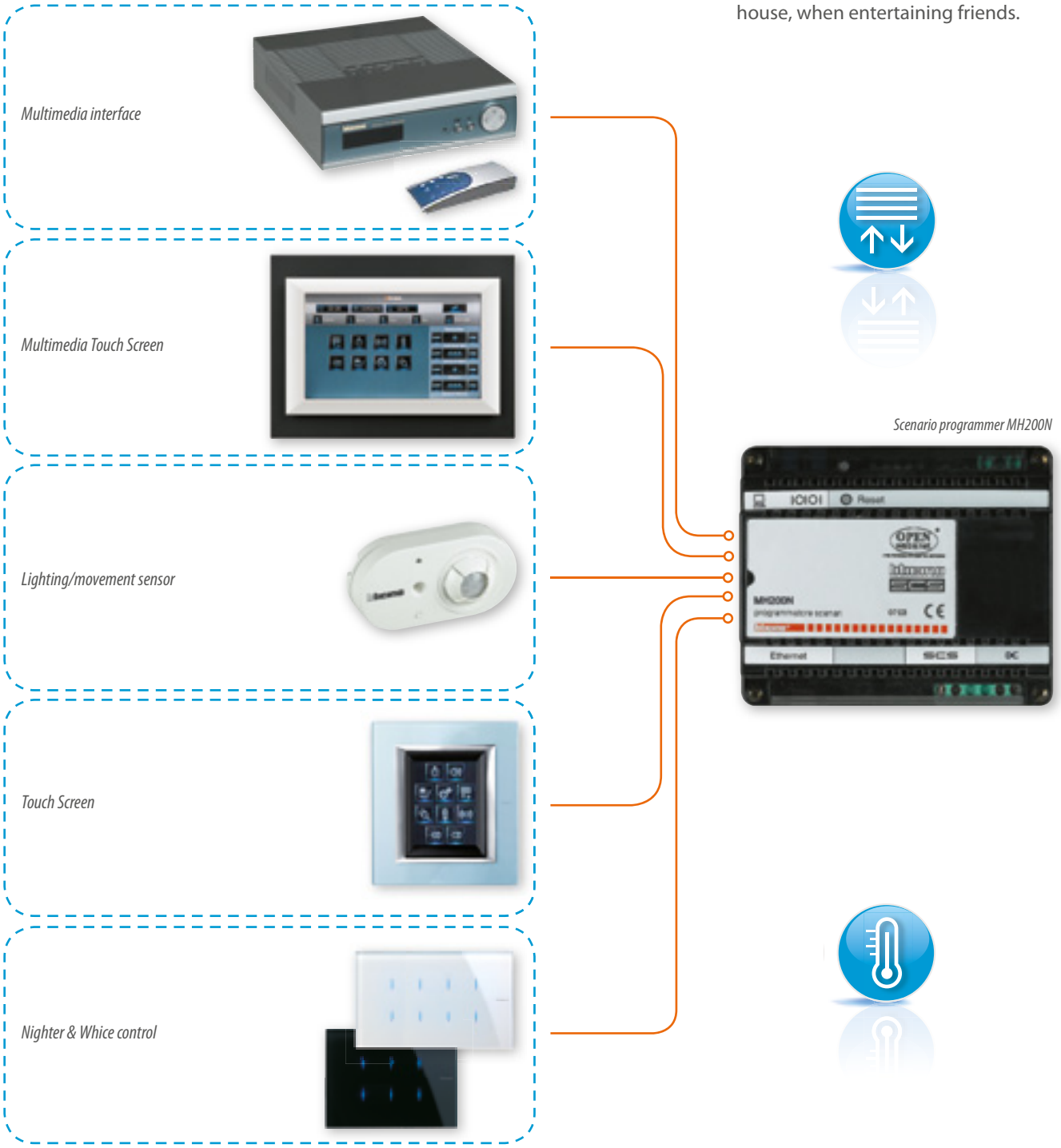
Video door entry system:
AXOLUTE Outdoor

Local control devices

SCENARIO MANAGEMENT SYSTEMS

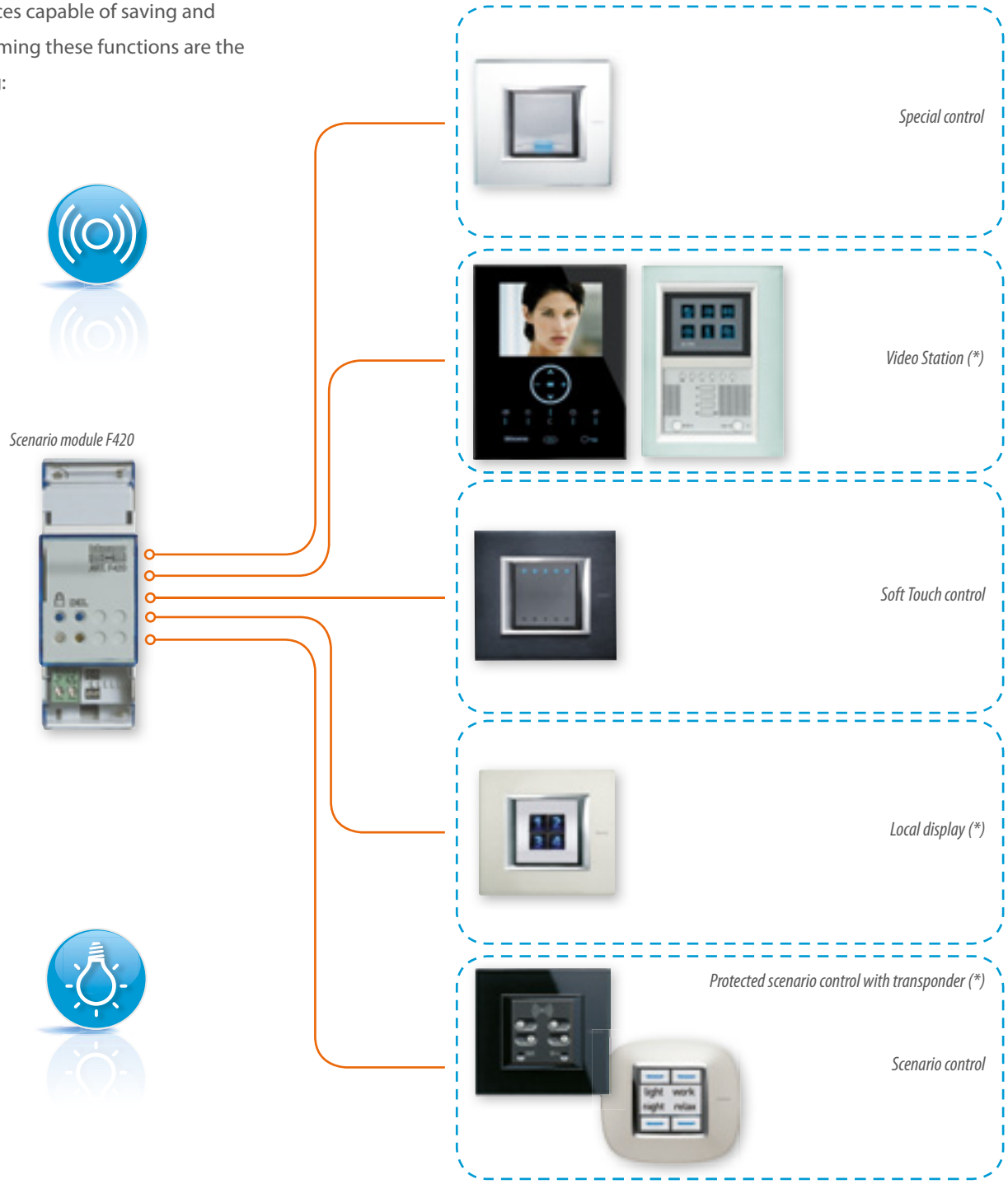
These devices can be used to create particular and advanced room comfort situations called scenarios, for example by switching on some lights to a certain intensity level, and positioning some shutters for watching the television or reading a book, following the lifestyle of the user.

Another example of an advanced scenario that can be set using the various integrated MY HOME systems is the activation of a certain background music, the setting of the temperature and the light level of the house, when entertaining friends.



The scenarios described are managed using particular devices capable of saving in the memory all the Controls that define the scenario, and which the user can recall simultaneously by pressing one single pushbutton.
The devices capable of saving and programming these functions are the following:

- Scenario module, item F420, 2 DIN modules, capable of saving 16 scenarios for automation, sound system, temperature control and video door entry system applications.
- Scenario programmer, MH200N, for the creation and management of advanced scenario, also dependant on time events.



NOTE (*): *at the moment these devices cannot activate scenarios managed by the MH200N scenario programmer..*

Local control devices

SCENARIO PROGRAMMER MH200N

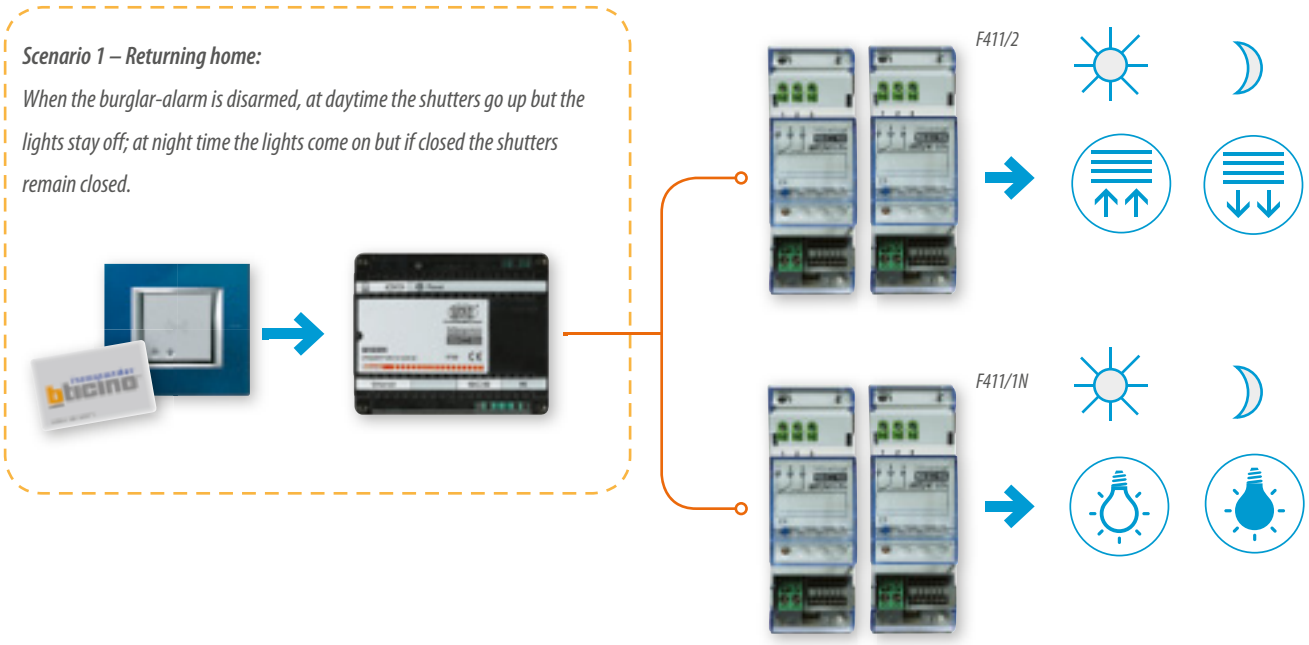
The device, installed in a MY HOME system, executes the scenarios programmed with the TIMH200N software (included in the CD supplied) based on the following enabling, disabling, block or release events:

- Pressure of a control pushbutton (configured in CEN mode);
- Switching on and off of a light (with the exception of dimmer light points);
- Automatic operation activation (shutter movement);
- An event managed using one of the nine auxiliary channels;
- An certain hour or date;
- An event of the burglar-alarm system;
- A condition occurring on the Temperature control system;
- An entrance panel call or the status of a camera of the video door entry system;
- An event of the sound system.

Following these events, MH200N can control the MY HOME system applications.
The execution of a conditioned scenario combined with a set time and date enables, for example, to simulate a presence inside the home by automatically activating the shutters or the lights at certain preset times, when no one is in fact at home.
A control pushbutton of the automation system can be programmed so that when it is pressed all currently active scenarios are interrupted (Panic button).
MH200N also operates as a system Gateway. See the section “Remote control devices”.

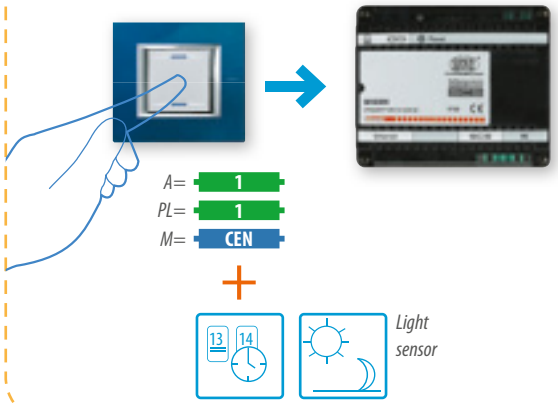
EXAMPLES OF SCENARIOS

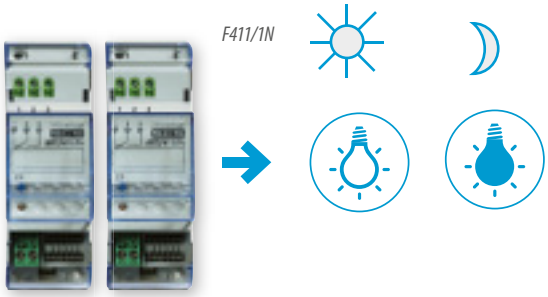
Below are some examples of scenarios that can be set using the MH200N device.
The association of the keys of the control devices to the scenarios to be activated is performed using the appropriate TiMH200N program supplied together with the programmer.


Scenario 1 – Returning home:
When the burglar-alarm is disarmed, at daytime the shutters go up but the lights stay off; at night time the lights come on but if closed the shutters remain closed.
F411/2
F411/1N

Scenario 2 - Garden lights:

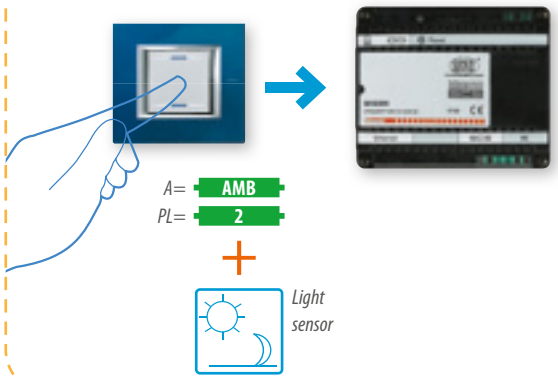
Following the activation of the control device, every evening at 20.00 o'clock, or when the light sensor detects that outside is dark, all the lights of the garden come on automatically.

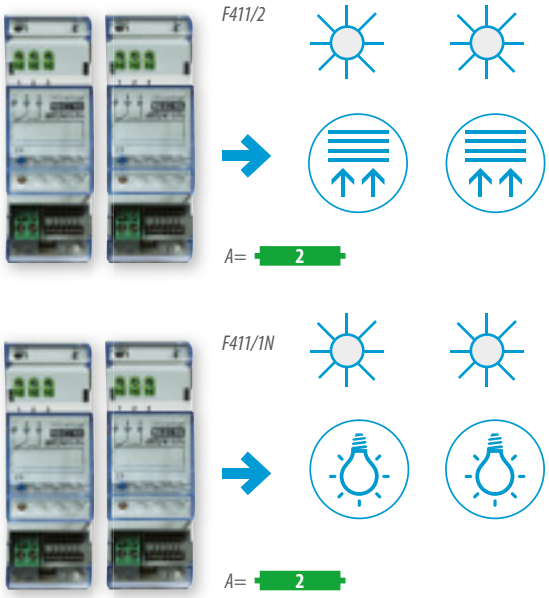




Scenario 3 - Energy saving:

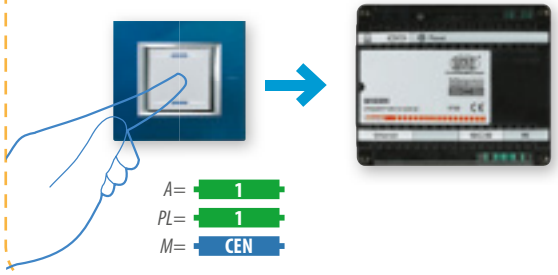
Following a room control (A=2) for the opening of the shutters, if the light sensor detects that it is daytime, the scenario automatically turns off all the lights of that room.

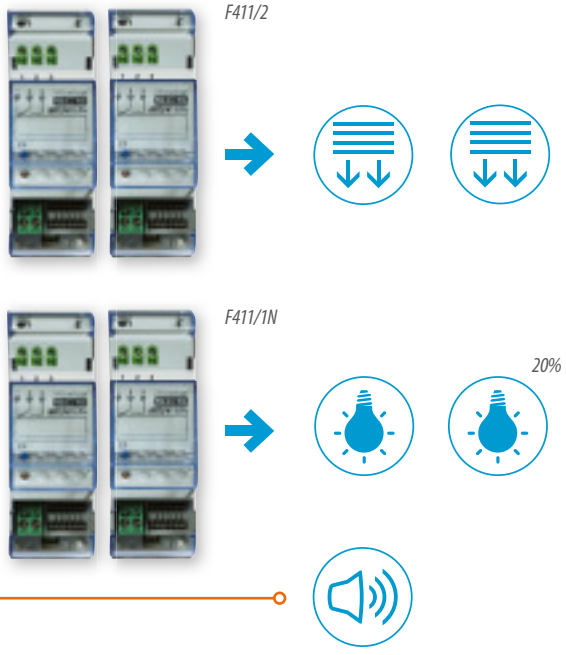




Scenario 4 - Relax:

The control device can be used to lower the shutters, adjust the dimmer lights at 20%, and activate the sound system in the desired room.





Remote control devices

MY HOME offers the possibility of controlling all the integrated functions of the house using a PC, a hand-held PC, a fixed line telephone, or a mobile phone.
In order to enable remote control, the following devices, providing Gateway access between the MY HOME system and the telephone and/or internet network, must be installed inside the home.

- F453AV or F453 Web server, or MH200N scenario programmer;
- 3486 or 3485 burglar-alarm central unit.

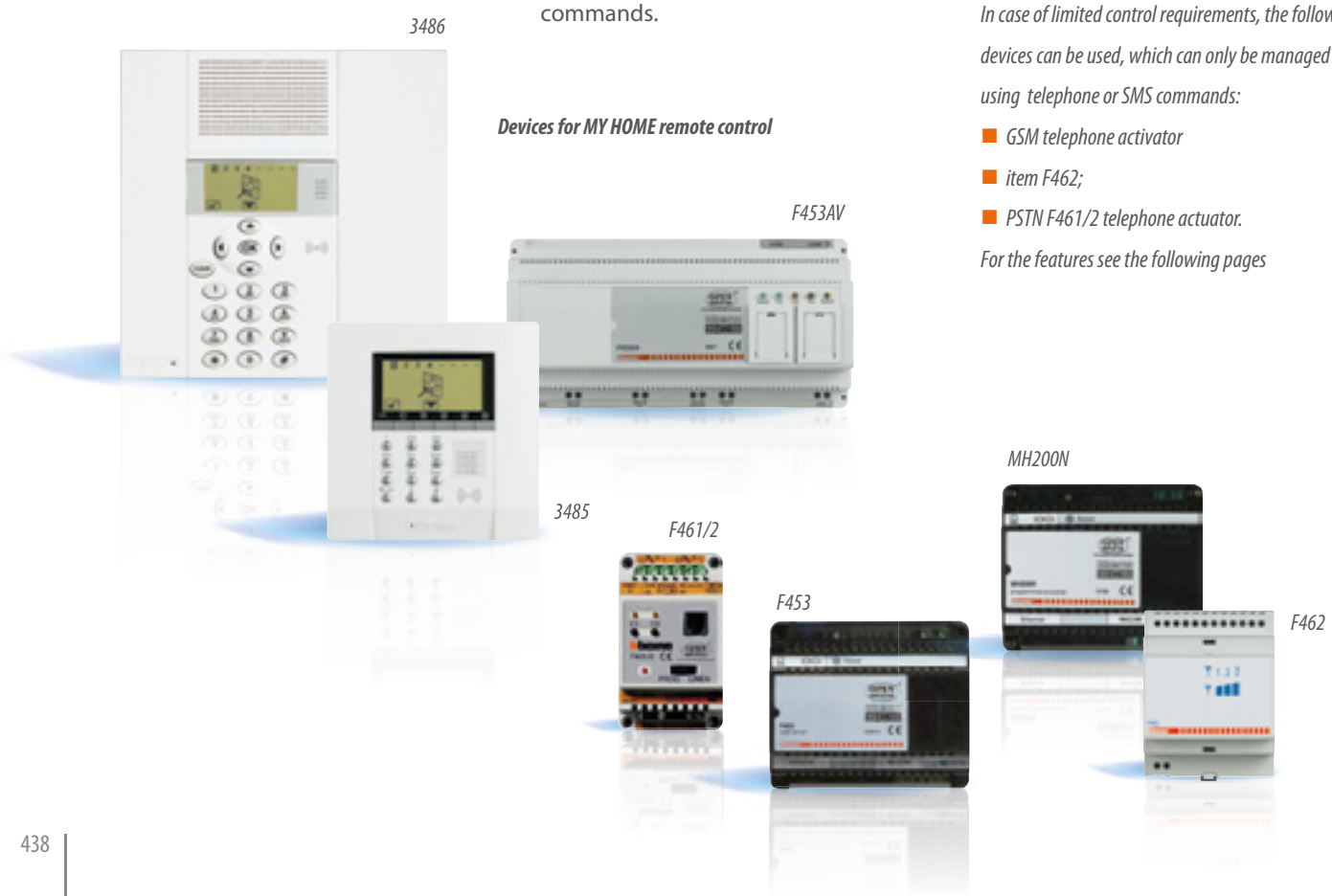
If the Web server is used inside the home, it will be possible to connect the system locally using a PC connected to the LAN NETWORK of the home, or remotely using a PC, a hand-held PC or a WAP telephone connected to the internet network. In both cases the control is performed using any browser program to access the particular WEB pages saved in the WEB server, where the functions to be managed are represented by simple and intuitive icons.
Thanks to the BUS of the MY HOME system the WEB server is connected to all the functions installed inside the home (automation, burglar-alarm, etc.). Connection to the outside is, as already indicated, though the internet.
If the Burglar-alarm central unit is used, connected to the PSTN or GSM telephone network, the control of certain functions of the MY HOME system is performed by remotely sending special telephone commands.

MY HOME PORTAL WEB
In addition to direct connection control, by using the telephone or the internet the Gateway access devices of the home give the possibility of remotely controlling all the MY HOME functions using the connection to the MY HOME WEB portal.
In this case, by using a PC connected to the internet or a telephone, it will be possible to interact with a virtual platform, which exchanges with the MY HOME system all the information on the status of the home automation functions of the house.

NOTE: Web Servers, scenario programmers and burglar-alarm central unit are flexible devices purposely designed to enable remote control of the various MY HOME functions using the above modes. In case of limited control requirements, the following devices can be used, which can only be managed using telephone or SMS commands:

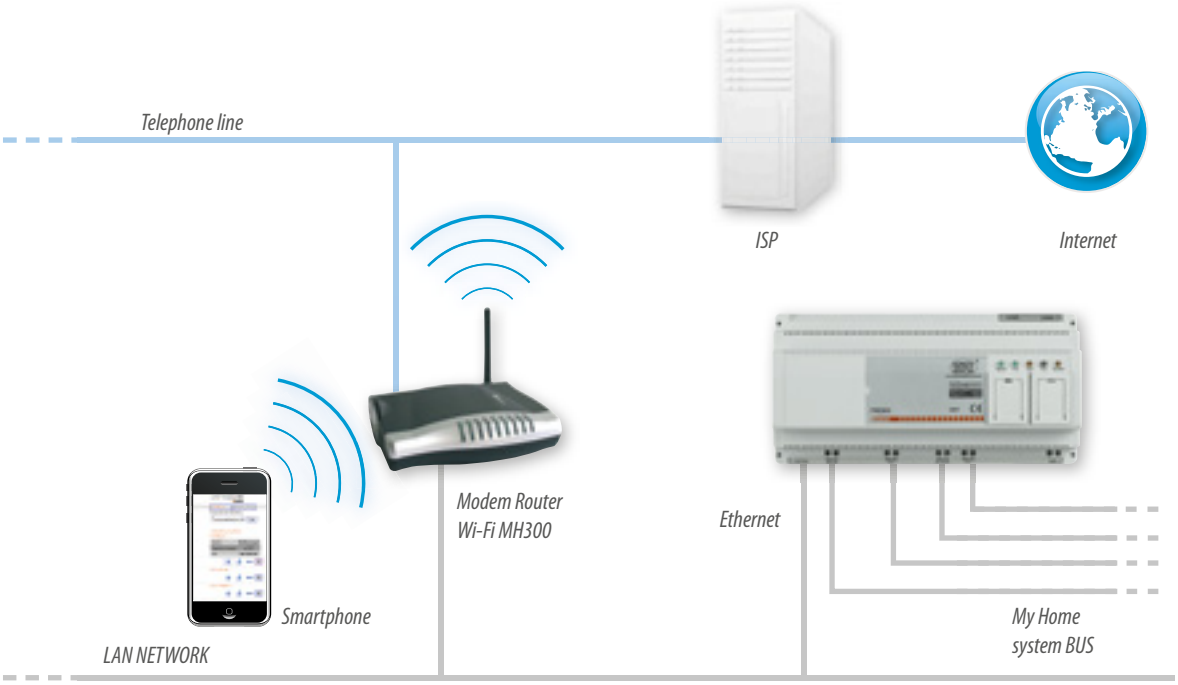
- *GSM telephone activator*
- *item F462;*
- *PSTN F461/2 telephone actuator.*

For the features see the following pages

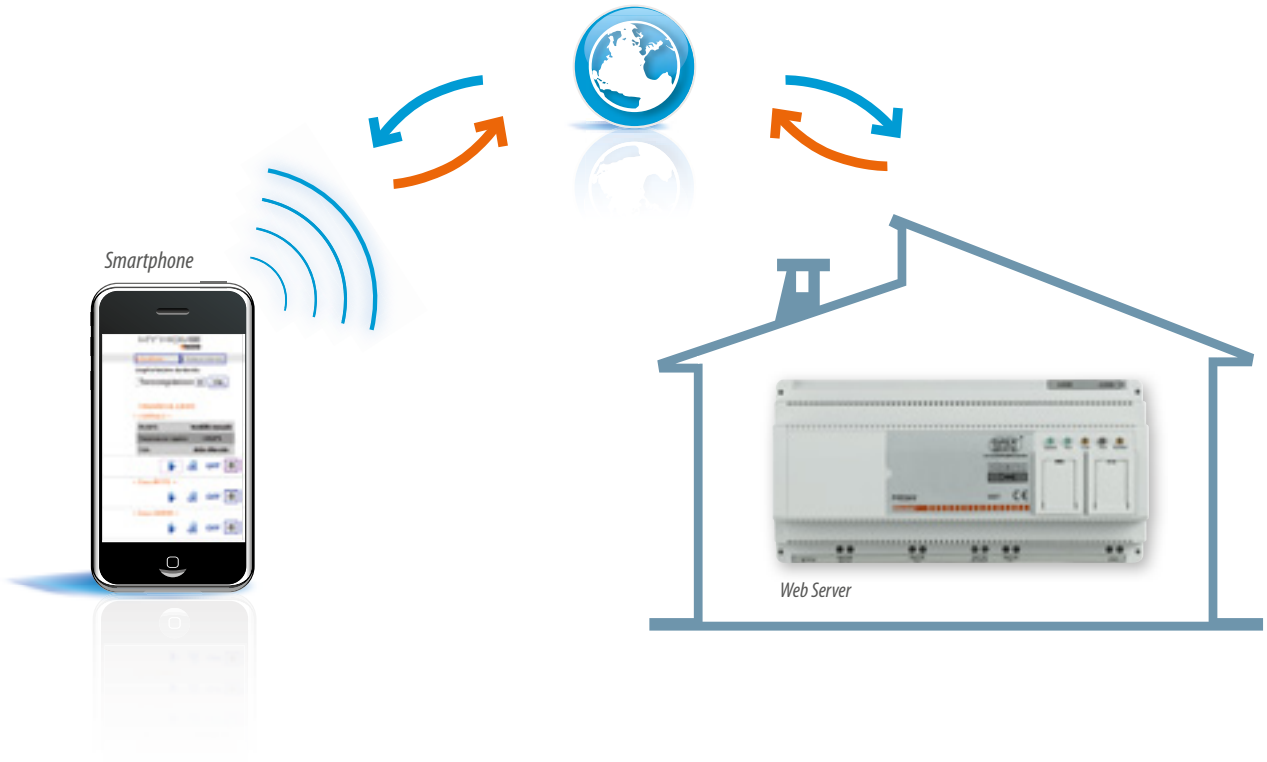


Devices for MY HOME remote control

EXAMPLE OF CONNECTION TO THE F453AV WEB SERVER USING A SMARTPHONE AND THE MH300 WI-FI MODEM ROUTER



EXAMPLE OF CONNECTION TO THE F453AV WEB SERVER USING A SMARTPHONE AND GPS CONNECTION



Remote control devices

FUNCTIONS PERFORMED	ADSL	
	F453AV	MH200N F453
Automation - ON/OFF lighting - Shutter UP/DOWN	●	●
Burglar alarm	●	●
Energy management	●	●
Video surveillance system max 96 cameras (connecting the F453AV to a 2 wire digital video door entry system) Display the pictures in black and white and colour	●	
Temperature control	●	●
Sending e-mail messages following instrusions and technical alarm	●	●
Sending an SMS following specific events, request for current status, alarms	● Only with MY HOME portal	●
Sending voice calls in case of intrusion and technical alarm	● Only with MY HOME portal	● Only with MY HOME portal
Sending e-mail with attachment in case of intrusion and technical alarm	●	
Video door entry answering machine: saving and sending the message and pictures recorded by the entrance panel by e-mail	●	
Forwarding of calls following Stop&Go events	●	●

GSM	GSM + PSTN	ANALOGUE TELEPHONE LINE (PSTN)	
Art.F462	3486	3485	F461/2
● Control of single electric loads	●	●	● Control of single electric loads
	●	●	
	● Only with MY HOME portal	● Only with MY HOME portal	
● Switching on and off remotely	● Only with MY HOME portal	● Only with MY HOME portal	
	● Only with MY HOME portal	● Only with MY HOME portal	
●	● Only with MY HOME portal	● Only with MY HOME portal	
●	●	●	

Remote control devices

F453AV AND F453 AUDIO/VIDEO WEB SERVERS

These devices can be used to operate a MY HOME system installed in the house or the office. The connection can be established using a modem and/or a data network (wired or wireless). By using a Personal Computer or a hand-held computer with standard browser (e.g. Internet Explorer 6), the user can locally or remotely connect to the Web server, using customisable web pages to perform the following operations:

- Supervision and control of the Automation, Energy management and Temperature control systems;
- Supervision of the burglar-alarm system by receiving the status messages ("system in alarm status" or "no alarm notification"). It is also possible to receive an e-mail message with images attached (F453AV only), for the notification of burglar-alarm system events;
- Supervision of the electric system, with the reception of messages in case of tripping of the Stop&Go device.

In addition, the F453AV web server can be used to perform the following operations:

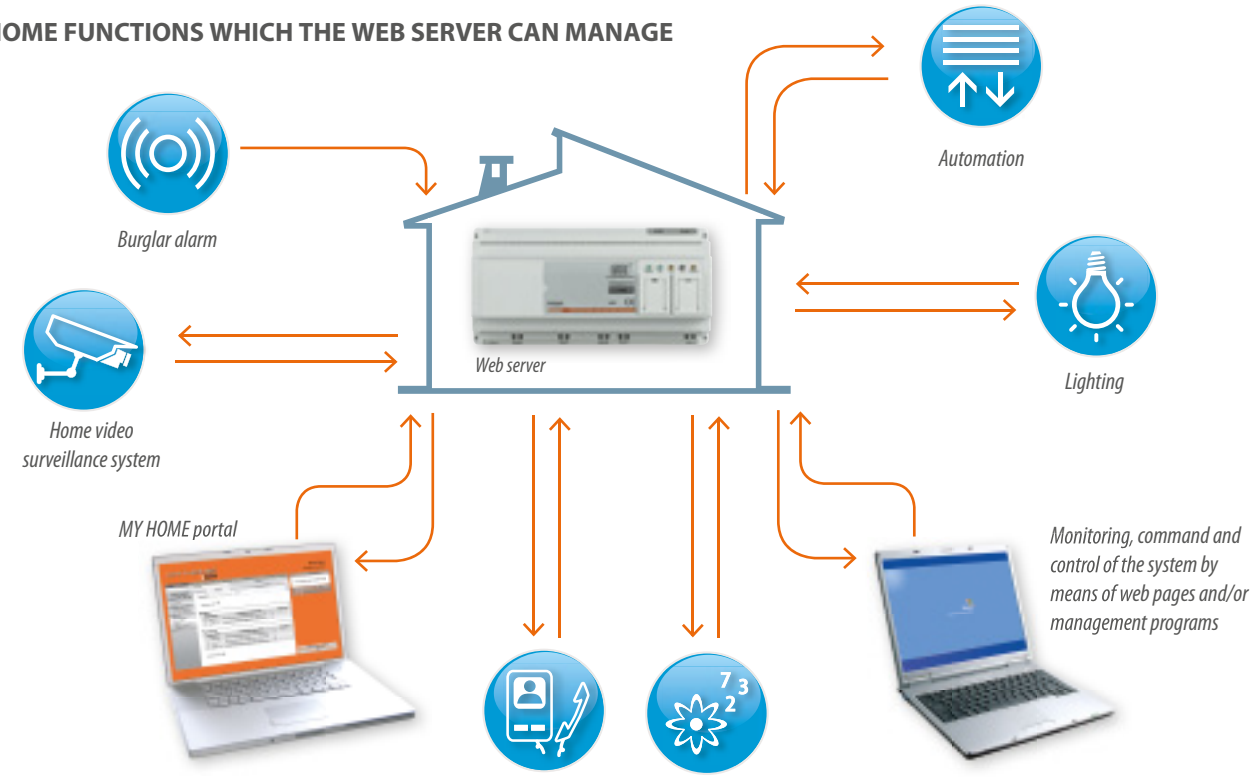
- Real time audio and video connection to the cameras of the video door entry system.

In particular, it is possible to:

- View the images broadcasted by the selected camera (with the possibility of adjusting the image, the framing and the zoom settings of the image using the PC);
- Listen to the audio recorded by the microphone of the selected camera (remote noise monitoring;
- Broadcast the own voice through the loudspeaker associated to the selected camera (real time audio communication using the personal computer);
- Listen and view the messages recorded using the "Video door entry system answering machine function".

  The audio messages and the images may also be forwarded by e-mail to an address.

MY HOME FUNCTIONS WHICH THE WEB SERVER CAN MANAGE



Management and control of the MY HOME system using a personal computer or a hand-held computer, by connecting to the MY HOME portal through a fixed-line or mobile phone, following a customisable voice menu.

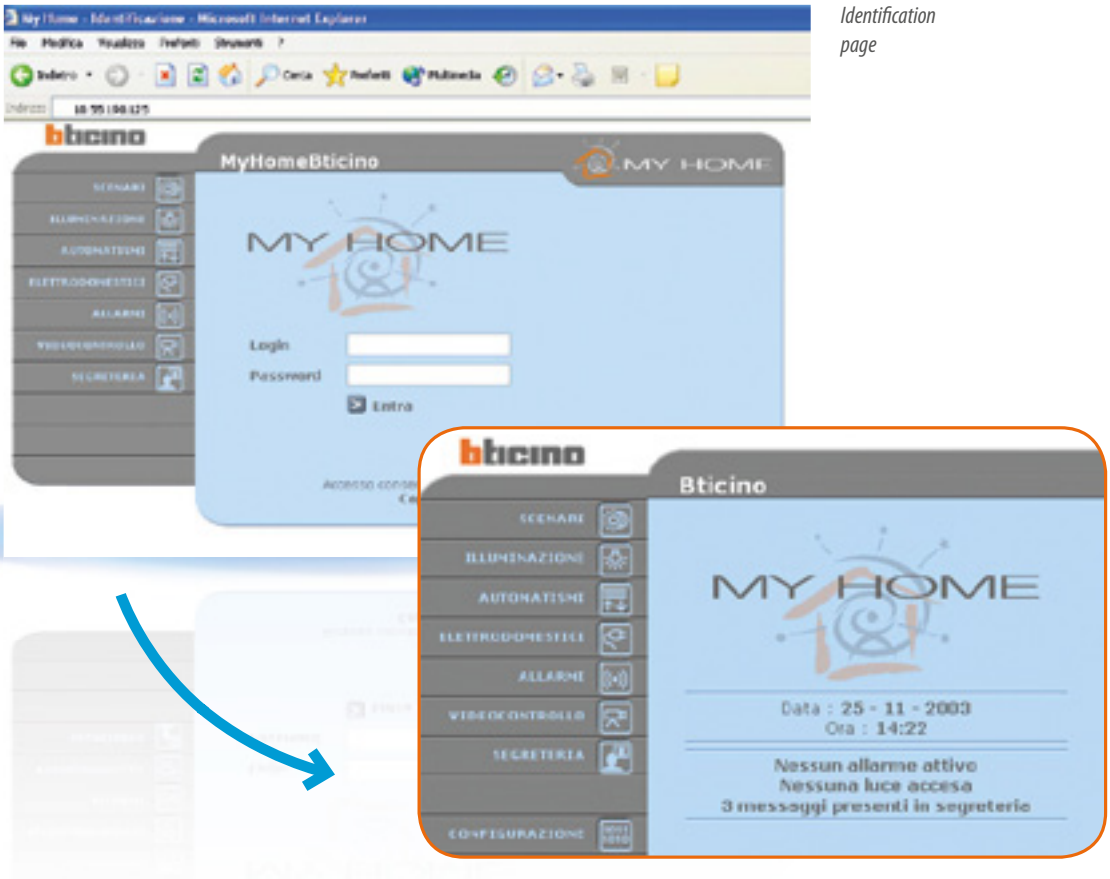
With the activation of the MY HOME WEB service, it is possible to remotely manage the home, using a PC or a hand-held PC with internet, fixed line telephone or mobile phone connection.
The Web Server can also be used as a Gateway for the virtual configuration of the MY HOME devices.

The Web Server can only connect one user with the My Home system; this is fundamental to guarantee the confidentiality, the coherence and the univocity of the operations performed.
The controls, defined during the programming of the Web server using the device software programs supplied, are password protected to prevent unwanted access.
Two types of users can access the Web pages:

- administrator,
- user.

As well as having the same level of acces as the user, the administrator can also access the CONFIGURATION function and define certain Web Server parameters, such as the number of pictures to be saved in the video door entry answering machine, the e-mail address to which alarm signals and/or messages in the answering machine, login and password for access to the pages as user, date, time and time zone and display language of the WEB pages.
In case of control using the MY HOME WEB service, acces is through the MY HOME portal via double identification.

Example of control pages for the F453AV Web Server



Identification page

Control Home Page

NOTE: The privacy of the information exchanged and of the pictures displayed is also guaranteed by the SSL 128 bit protocol.

Remote control devices

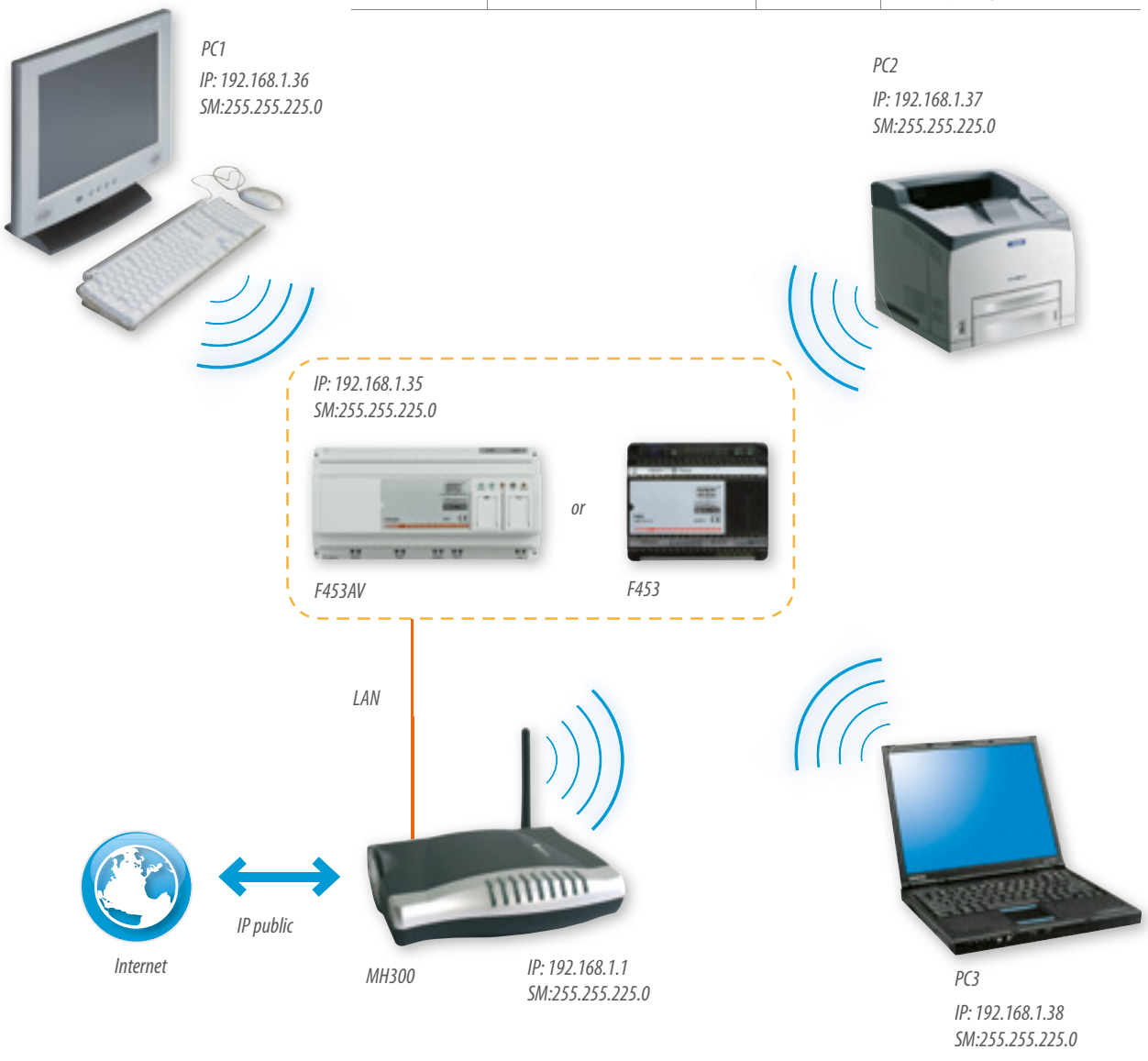
MODEM ROUTER ADSL MH300

MH300 is a Wi-Fi ADSL Modem router useful for connecting the MY HOME system to the internet, and use the MY HOME WEB portal.
In addition to the Modem router, it is also necessary to install in the system a F453AV or F453 web server appropriately configured, and to have available an ADSL line (with fixed or dynamic IP).

The MH300 can be configured with a browser or through a special configuration program supplied by BTicino (included in the item).

BTicino ADSL Wi-Fi Modem routers also allow you to create a LAN network or a Wi-Fi LAN network within the system.

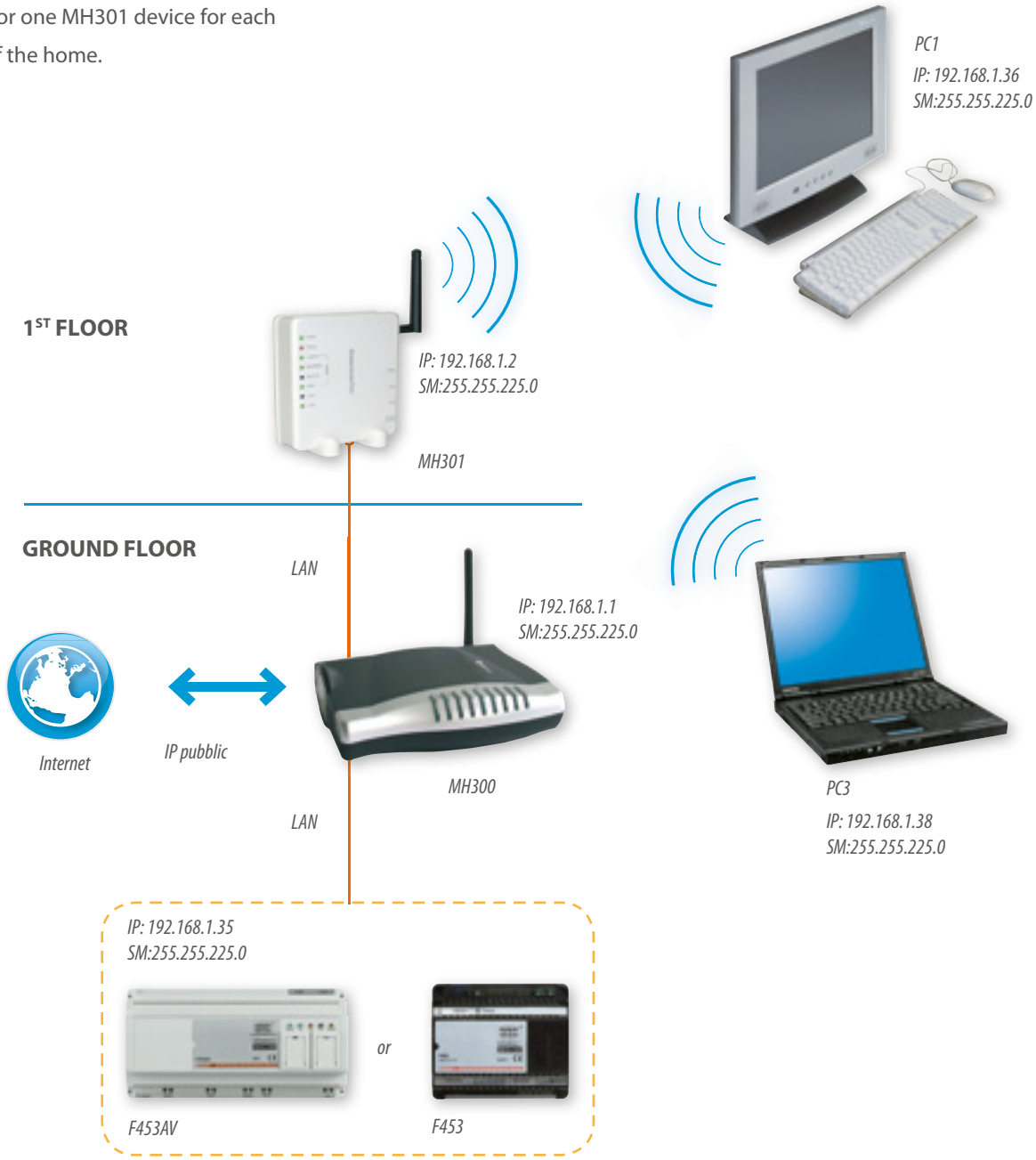
ITEM	ADSL LINE CONNECTION	LAN	WI-FI LAN
MH300	●	● 4 PORTS	●
MH300 + C9450	●	● 10 PORTS	●
MH300 + C9455	●	● 8 PORTS	●
MH300 + MH301	●	● 3 PORTS	● ± repeating on several floors



ACCESS POINT MH301

MH301 is a Wi-Fi access point to be used as “repeater” device, to create extended wireless networks inside homes with several floors that do not have a wired LAN NETWORK.
For optimum use, we recommend to allow for one MH301 device for each floor of the home.

All MH301s must be wired with a LAN cable to the Wi-Fi Modem router used for the Internet connection.
The MH301 must be configured before it is connected to the system.



Remote control devices

BURGLAR-ALARM CENTRAL UNIT WITH PSTN OR GSM TELEPHONE COMMUNICATOR

The telephone communicator, with which the 3486 and 3485 burglar-alarm central units are fitted, is capable of automatically dialling previously programmed telephone numbers and to forward, through the PSTN (3485) or PSTN/GSM (3486) telephone lines, one or more pre-recorded messages, following an intrusion or a technical alarm. It also enables bidirectional communication between the user and the burglar-alarm system or the automation system, for the interrogation of the status of the burglar-alarm system, and the activation of the loads (lights and shutters). The programming and the remote use are protected by a secret code consisting of 5 digits, which can be customised by the user; the secret code must also be entered in case of alarm call, to send monitoring and silencing commands. Its functions can be divided into 3 categories:

- Alarm management
  When the burglar-alarm system detects an alarm, it activates to call the numbers set, specifying the type of alarm detected.
- Automation
  Following events detected by the burglar-alarm system, it can determine the automatic operation of other devices in the home.
- Telephone controls
  The devices installed in the home can be commanded using the fixed-line or the mobile phone by using predefined codes, or using the MY HOME WEB service (through a PC or a hand-held pc with internet line, a fixed line telephone, or a mobile phone).

MAIN FUNCTIONS

The telephone communicator:

- when there are particular events such as an alarm (example: intrusion alarm) or system fault, it automatically calls the telephone numbers previously set, specifying by means of pre-recorded messages the type of alarm detected;
- commands an automatic operation following an event detected by the burglar-alarm system;
- can be called by the user, and using "open web net" commands or simplified commands can activate the operation of devices inside the home
- Can be interrogated by telephone to give information on the status of the burglar-alarm system;
- Allows continuous monitoring of the system sending, for example, a notification that there has been a power cut for more than 2 hours.

The device also makes available:

- the possibility of setting an extra joker telephone number, common for all the messages, for easier tracking;
- automatic recording of the internal memory of the events which have happened and been detected by the system,
- The possibility of connecting to the BTicino "MY HOME" portal.
  This will make the MY HOME WEB services available, for example the forwarding of an e-mail when an alarm occurs.

Burglar-alarm central unit with PSTN/GSM telephone communicator item 3486

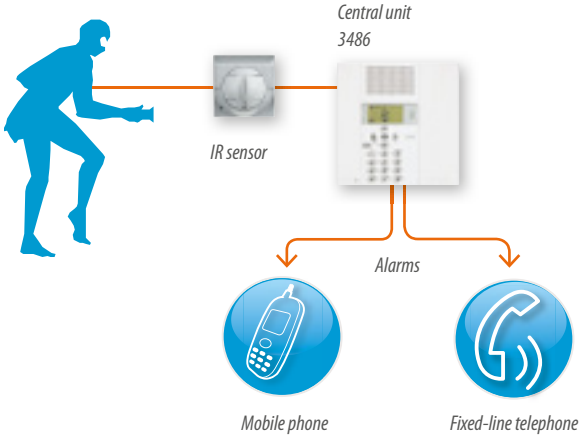
Burglar-alarm central unit with PSTN telephone communicator item 3485

EXAMPLES OF USE

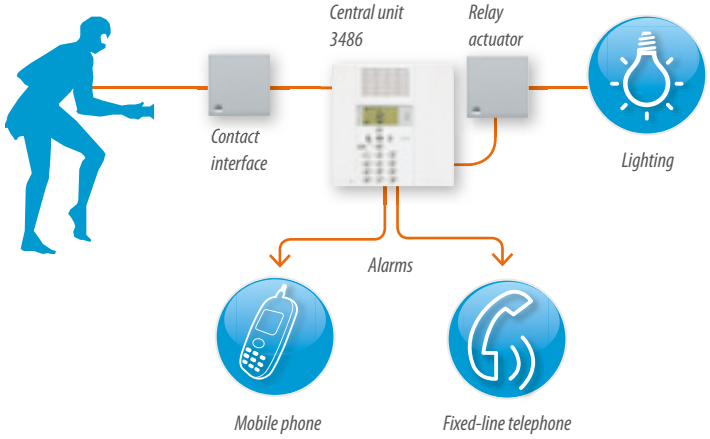
5 examples of use of the burglar-alarm control unit with PSTN or GSM telephone communicator are proposed below. Remember that each device can perform all the functions indicated simultaneously.

- INTRUSION ALARM
  Following an intrusion alarm the communicator calls the pre-set telephone numbers.
- Tampering alarm and switching on the garden lighting
  Following a tampering alarm (window opening) the dialling device calls the pre-set telephone numbers and switches on the lamps in the garden.
- Interrogating the status of the burglar-alarm system
  By calling the home number the communicator can be interrogated to receive information on the status of the burglar-alarm system (e.g. on/off, events detected).
- Technical alarm (gas leak)
  By combining the gas detector in the burglar-alarm system via an interface, when there is a gas leak the communicator will call and inform the user.
- Alarm forwarding using the MY HOME WEB portal.
  Following an alarm the telephone communicator of the central unit sends a call to the pre-programmed telephone numbers and connects to the MY HOME portal. The portal will send an e-mail, an SMS, and a voice call to the pre-programmed addresses.

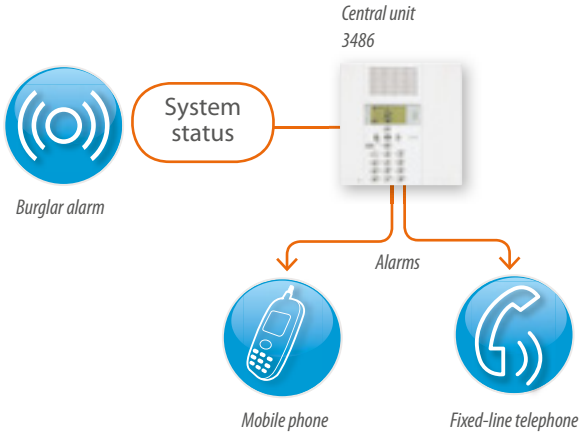
INTRUSION ALARM



Tampering alarm and switching on the garden lighting



Interrogation of the burglar-alarm status



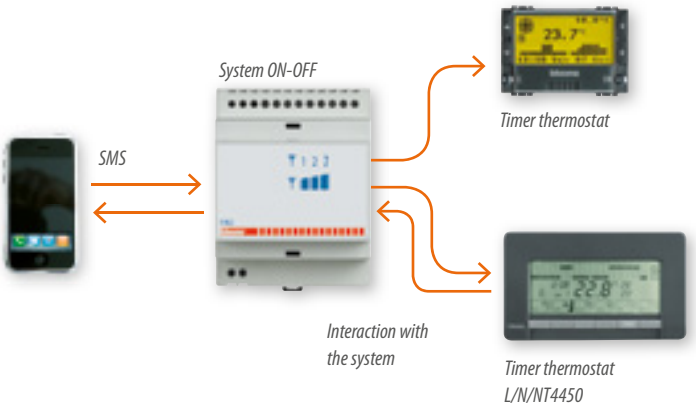
Remote control devices

GSM TELEPHONE ACTIVATOR ITEM F462

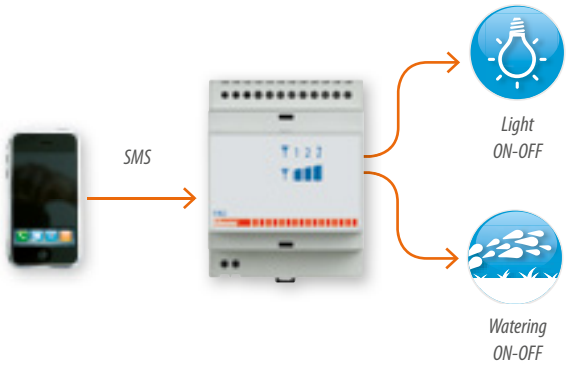
It can be used to enable and disable the user loads remotely, using simple SMS telephone messages.
The device is set up to have 2 alarm contacts. When the status of one of the contacts changes the device sends an alarm SMS to the saved number. The device can be interfaced with the BTicino timer thermostats to switch the system ON or OFF remotely. Using the L/N/NT4550 timer thermostat one can also interrogate the system status remotely and set it to a particular temperature.

GSM telephone activator

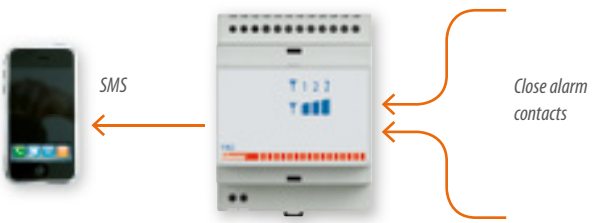
USE WITH TIMER THERMOSTAT



USE FOR LOADS ON/OFF



ALARM NOTIFICATION USE



TELEPHONE ACTUATOR
ITEM F461/2

The telephone actuator can control two users (e.g. boilers, watering the garden, staircase light, garden light, etc.) at a distance by means of the fixed-line telephone or from the mobile phone.

The programming and the remote controls are protected by a secret code (password) consisting of 4 digits, which can be customised by the user; the default code is 1234.

During programming three different operating modes can be selected:

- Lighting
  Can be used to activate/deactivate users such as staircase light, garden light, boilers etc.
- Automatic operation
  Can be used to operate the shutter (up/down) motors or other electric motors.
- Temperature control
  To activate or deactivate the boiler in combination with BTicino timer thermostats.

The activation, deactivation, check and programming commands must only be sent to the actuator from a telephone with touch tone dialling (DTMF), when using telephones with pulse dialling (PD) or rotary dial the actuator does not work.

The telephone commands can be sent in the simplified version, with a small number of codes for easier use, or in the complete version according to a standard defined by the "Open Web Net" protocol.

Also, the users can be activated locally using the two pushbuttons (C1 and C2) on the front panel.

Up to four actuators in parallel on the line can be installed on the same telephone line to command more than two users. Actuator operation is guaranteed even if there is an answering machine on the telephone line.

The actuator can also be installed as an extension on a BTicino PABX telephone switchboard.

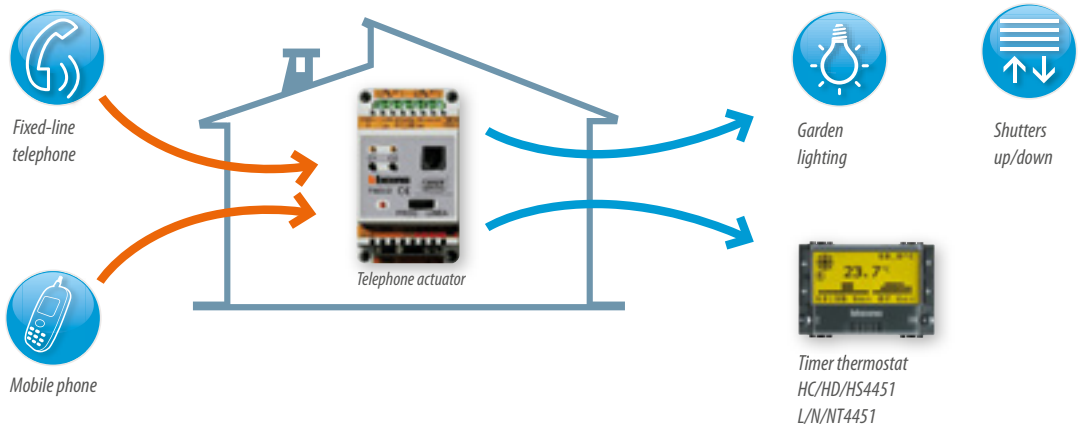
Telephone actuator

In this application the users can be controlled both from the extensions and from an external telephone line.

When there is a power cut (230V a.c.) the actuator keeps all the programming in the memory, including the status of the relays.

Example: Light mode and Temperature control

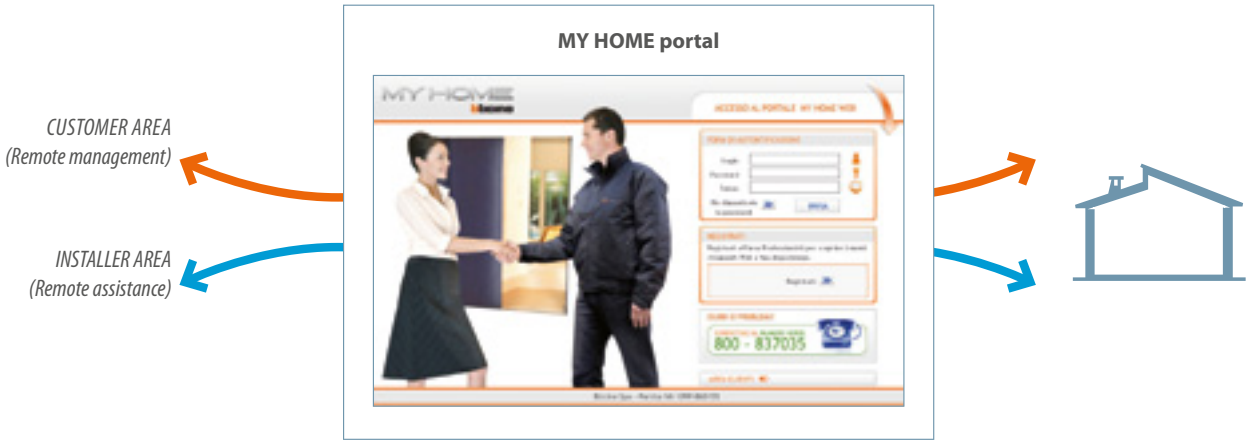
Remotely controls the switching ON and OFF of lights and shutters and the temperature control.



MY HOME WEB

MY HOME Web is a virtual platform designed by BTicino, to provide innovative services to all customers with a MY HOME system fitted with BTicino remote connection devices. The platform can be split in two main separate areas:

- **Installer area:** intended for the My Home installers which can register their own systems. Following customer's request, it is also possible to activate the Remote Assistance service, which gives the possibility of remotely monitoring the home of the customer, and receive real time notifications in case of faults.
- **Customer area:** solely intended for customers interested in the remote management of their system. This service, active since 2003, enables remote control of all the home automation functions of the MY HOME system, making available exclusive services that are only possible through the web portal (danger notifications, web scenarios, etc.).



CONNECTION SAFETY AND PROTECTION

In developing the MY HOME WEB portal, BTicino has paid special attention to ensuring **high levels of protection** of the data transferred through the network from **unwanted access**.

The most stringent protection criteria have been implemented, like:

- The use of the special https protocol, which makes any information being transferred through the line unreadable at the origin;
- The use of the 128 bit SSL (Secure Socket Layer) protocol, certified by the **VeriSign Certification Authority.**

These solutions **provide high levels** of:

- **Privacy**: protection of data from unauthorised access;
- **Integrity**: safeguard of the accuracy and completeness of the information;
- **Accessibility**: guarantee that both data and information will be available when required.

In recognition of the high safety level offered by the connection with the MY HOME WEB portal, **BTicino has obteined the ISO27001** "Information technology - Security management systems" certification.

MY HOME WEB – Installer Area

Installers access their own dedicated area in the Installer Portal section - MY HOME section, using the Token and the personal access keys (login and password). Here they will find the following services:

- System registration;
- Filing of the device configuration files and documents generated by the YouProject design software, and by the programming software programs.
- Filing of any activities performed on the system through the web;
- Enabling of the system remote management function for the customer.
- Menu management and list of regular maintenance activities for the single system.

Token device for the creation of the password

DOCUMENTS THAT CAN BE FILED

- XML file generated by YouProject
- Web configuration file
- Server
- Configuration files for Multimedia Touch Screen, Touch Screen, etc.

System management web page details

Installers that have been appointed by the Customer to provide a Remote assistance service, will be able to ensure a highly professional remote assistance service, consisting in the following functions:

- Forwarding of diagnostic commands to ensure correct operation of certain system devices, such as:
  - Scenario central unit and actuators of the Automation system;
  - Burglar-alarm central unit;
  - Temperature central unit;
  - Web Server.
- Reception of fault notifications in case of:
  - Faulty or exhausted battery;
  - Device or zone in intrusion or tampering alarm status;
  - Device in panic alarm status;
  - Loss of communication between the Burglar-alarm central unit or the Web Server, and the Portal;
  - Temperature control system fault.

ACCESS TO THE PORTAL USING MOBILE DEVICES

In addition to using the browser, the installer can also interact using mobile devices (mobile phones, hand-held phones, etc.), to display the following information:

- Customer data;
- Customer contract and credit situation;
- Events from remotely managed systems.

Numero Verde 800-837035

NOTE: For more information or to request the activation of the Installer Area contact the Call Centre, toll-free number 800.837.035 (8.30-19.00 Monday to Friday and 8.30-12.30 Saturday)

MY HOME WEB – Customer Area

Customers can check all the MY HOME comfort, safety, saving and communication functions for their own homes.
For example, they can switch the heating on, check the status of the burglar-alarm system, display on screen some areas of the home through the cameras of the video door entry system, activate certain scenarios, and much more.
They can be informed at any time on the status of the home, and receive prompt notification in case of gas or water leaks, or burglary attempts.
Depending on the control device used by the Portal to interact with the MY HOME system, it will be possible to control and use the functions listed in the following table:

CONTROL DEVICES	WEB SERVER (*)		BURGLAR-ALARM CENTRAL UNIT
Functions	F453AV *	F453 *	3486 - 3485
Comfort	●	●	●
Safety	●[1]	●[1]	●
Energy management	●	●	●
Audio Video communication	●[2]		

*NOTE *: In order to use the MY HOME WEB service with Web Server, a modem/router must be installed in the system..*

*NOTE *1: The Web Server only indicates the status of the Burglar-alarm system.*

NOTE 2: The F453AV Web Server can manage the advanced video door entry system and video surveillance system functions of the house, like the possibility of enabling the "video door entry system answering machine" service, with the user receiving an e-mail or an SMS each time someone leaves a message on the video door entry system answering machine of their home, or the possibility of being notified in case of intrusion, by receiving an e-mail including any audio and video content recorded automatically by the cameras.

EXCLUSIVE ADVANCED FUNCTIONS PERFORMED WITH MY HOME WEB

In addition to the remote control of the home automation functions, the user can also define and use a range of exclusive and advanced functions that are specifically useful for ensuring a customised use of the service (see following table).

SERVICE COST

Following a procedure similar to mobile phone agreements, the customer will by a prepaid credit called "MY HOME Credit" from BTicino. This is valid for one year, and deductions to this credit are made based on the control device used, and the operations performed.

FUNZIONI	DESCRIPTION
WEB scenarios	Irrespective of the presence of scenario management devices inside the home, it is possible to define web scenarios that can also be enabled by sending SMS messages, or based on events.
Planning	Creation of action sequences that activate automatically at certain times or during certain days, and repeat following a plan.
Notifications and actions	Definition of the actions performed by MY HOME WEB and of the type of notifications forwarded following a system event (SMS notifications, e-mail, etc.).
Multiple users (houses)	Customisation of the portal for access to several systems (several homes)
Multiple users (users)	Customisation of the procedure for accessing the portal depending on user type.
Interface customisation	Creation of customised navigation menus, based on the needs of the user and the management device used (web browser, hand-held PC, etc.)
Event log	Display of the list of the events occurred within the system

Page for the customisation of Web scenarios

Page for the display of the images recorded by the camera

ACCESS MODE USING MOBILE DEVICES

In addition to web access, possible using a PC with web browser connected to the internet, the customer can communicate with the Portal using other channels taking advantage of mobility, such as mobile phones and hand-held PCs.
The functions that can be performed with each mode of connection are the following:

Mobile access

Web Mobile access is possible using the web browser (XHTML compatible), of mobile devices such mobile phones and hand-held PCs.
After connecting to the www.myhome-bticino.it website and completing the authentication procedure (login and password), it will be possible to:

- Manage the system functions (lights, automation, burglar-alarm, temperature control, etc...);
- enable/disable the remote assistance by the installer.

The list of the functions that can be managed can be defined by accessing the web portal, "Mobile Menu Customisation" section.

Access using SMS messages

By sending SMS messages it is possible to activate a scenario (ordered sequence of actions to be performed inside the home).
The creation of the scenarios and the association to the SMS message is performed during the Customer Area customisation stage.
By sending SMS messages it is also possible to know the status of the devices.

Voice access

For this mode, a DTMF touch tone keypad telephone must be used.
To establish voice access, the user must call 199.240.022. An automatic voice message will greet the customer, asking for the personal ID code (telephone login followed by telephone password), followed by the * key.
Once logged in, an automatic message will give the list of the menu functions, and the keys to be pressed for their selection. After the function has been selected, the voice will explain the procedure for performing the desired operations on the system.
The voice access menu can be customised by the customer during the Customer Area customisation stage.

System layout for the use of the MY HOME WEB services

CONTROL DEVICES

In order to use the MY HOME WEB services, it will be necessary to install a control device connected to the MY HOME system.

It is possible to choose between two categories of devices:

- F453 and F453AV Web Server for connection through the internet;
- Telephone communicator of the 3485 and 3486 burglar-alarm central unit, for connection using the PSTN telephone network.

The two devices may be used at the same time to increase the flexibility of the remote control of the whole home by MY HOME WEB.

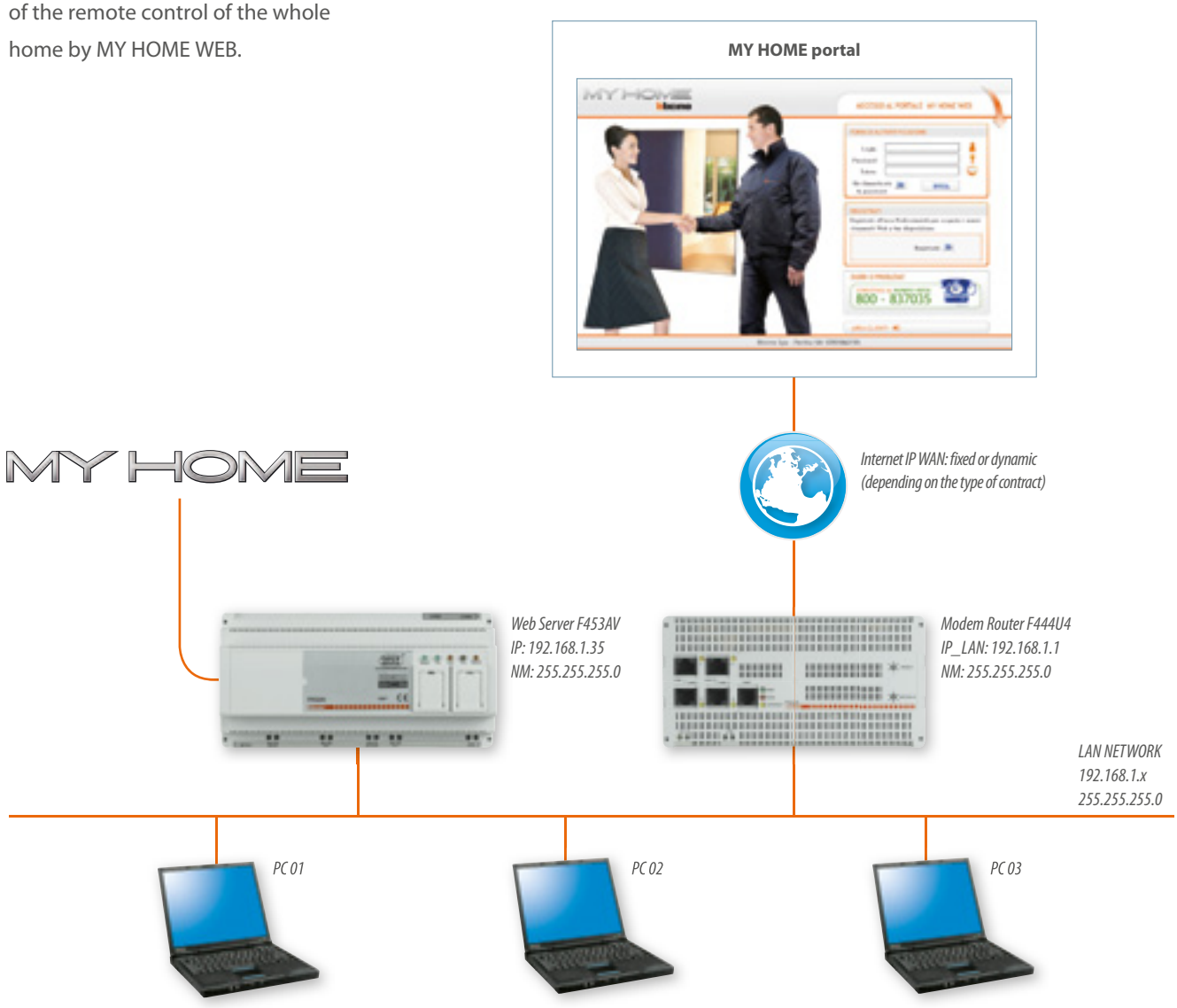
WEB SERVER FOR CONNECTION TO THE INTERNET NETWORK

With the F453 and F453AV Web Server it is possible to establish real time communication at any time, using the MY HOME system of the home.

A necessary condition for ensuring the above is the availability of an ADSL line with Flat 24h contract, dynamic or static IP, and the use of an F444U4 or MH300 ADS modem router.

If not already present inside the house, a LAN NETWORK will also have to be installed following the example shown.

Both the Web server and the modem router must be correctly configured using the appropriate programs supplied, entering the parameters for the connection with the LAN NETWORK and the Portal.



TELEPHONE COMMUNICATOR OF THE 3485 AND 3486 CENTRAL UNIT FOR CONNECTION TO THE PSTN NETWORK

Using the burglar-alarm central unit with communicator, it is possible to control all the MY HOME functions with the exception of video door entry system and video surveillance system functions, which can only be controlled using the F453AV web server.

MY HOME WEB – Creation and configuration of the Customer Area

PRELIMINARY REQUIREMENTS

A fundamental requirement for the creation of the customer area is the availability of the XML configuration file of the system, generated by the project and configuration program YouProject.

In case of existing systems, or systems not designed using YouProjects, it will still be possible to obtain the XML file by compiling the "electric system booklet" in Excel format, available from the website www.professionisti.bticino.it. or in the CD attached to this guide.

After compiling, the Excel file can be imported in the YouProject program for the creation of the corresponding system configuration file in XML format.

For the creation of a Customer area, it will be necessary for the installer to have a personal "Installer Area" enabled inside the MY HOME WEB portal.

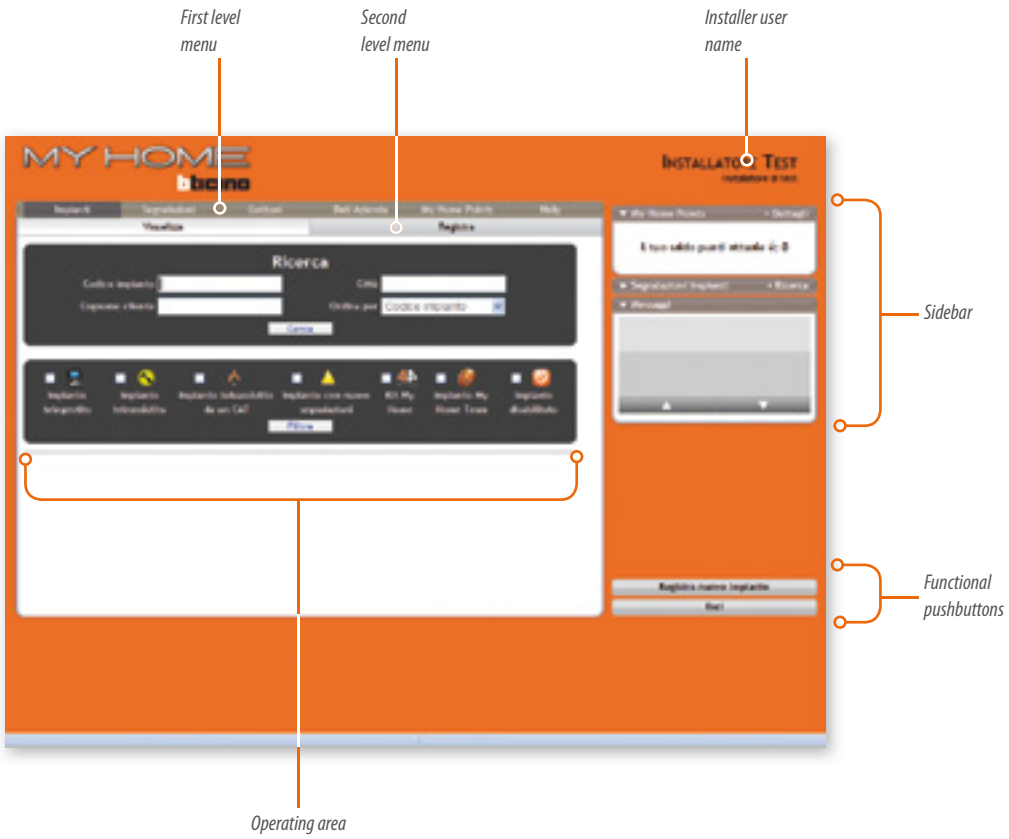
For details on the procedure refer to the "Installer Area User Manual" available from the www.professionisti.bticino.it website.

The procedure can also be performed by a Technical After Sale Service (CAT).

OPERATION FLOW

The operations to follow for the configuration and activation of the Customer area consist of two stages:

- Operations to be performed using the internet in the "Installer Area";
- operation for the configuration of the control devices in the MY HOME system.



MY HOME WEB – Creation of the customer area: operations to be performed in the Installer Area

1. System registration;

2. Loading of the XML file for the configuration of the system in the System documents area;

3. Entering of the parameters of the control devices (web server or burglar-alarm central units) in the "Devices" section, as explained below:

3.1 The use of the Web Server shall be specified by entering the following parameters:

- OPEN password;
- Type of connection: DYNAMIC IP ADSL or STATIC IP ADSL;
- "Internal IP" address associated to the control device;
- Number of the port used for sending the controls
- Number of the port used for receiving
- Password for camera images

3.2 The use of the burglar-alarm central unit must be specified by entering the telephone number of the PSTN line or the OPEN password.

4. Saving of the page for the creation of the GATEWAY ID data;

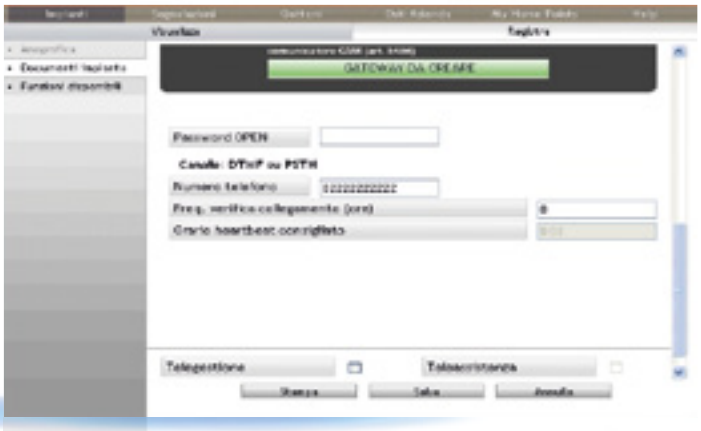
5. Enabling of the REMOTE MANAGEMENT function in the "Available functions" section.

The customer will receive an e- mail containing the necessary link for the creation of the contract. This document must be printed, signed, and posted to BTicino, who will then provide the safety keys (Login and Password) for the use of the service.

Note: For the detailed list of the parameters to configure, refer to the documentation available from the www.professionisti.bticino.it website.

Configuration of the TCP/IP CHANNEL

Configuration of the DTMF PSTN CHANNEL



MY HOME WEB – Creation of the customer area: operations to be performed on the control devices

WEB SERVER F453 AND F453AV

Configure the Web Server using the TIF453 and TIF453AV program, entering the following data:

ETHERNET PAGE

The IP Address, Subnet Mask and Router IP fields are already filled. In this page it will be necessary to enter the router IP as primary DNS (normally 192.168.1.1), and the DNS supplied by the ADSL internet provider as the secondary DNS.

MY HOME PORTAL PAGE

In this page perform the following operations:

1. Enable portal access.

2. In the GATEWAY ID field enter the GATEWAY ID code generated automatically during the configuration of the control device.

3. Select the auxiliary type spontaneous events to be displayed in MY HOME WEB.

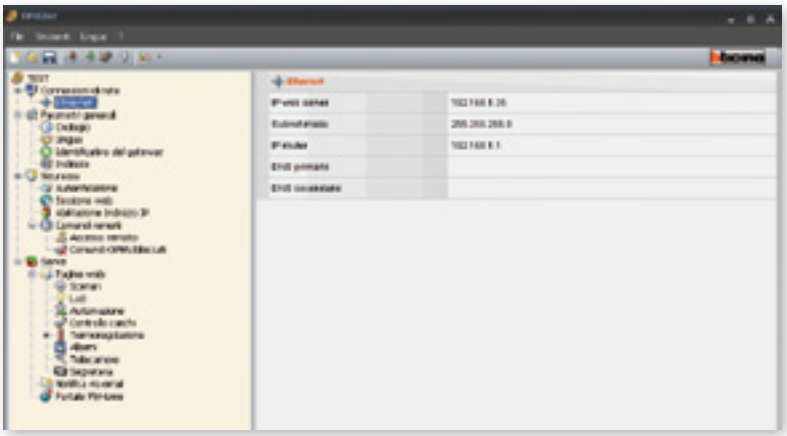
4. Check the default connection parameters:

- MY HOME WEB address: portal.myhomeweb.it
- MHWEB email: mhe.pro@myhomeweb.it
- SMTP Server address: smtp.myhomeweb.it

AUTHENTICATION PAGE

In this page, enter the OPEN password entered in the portal during the creation of the system ID, and that of the camera.

Ethernet page



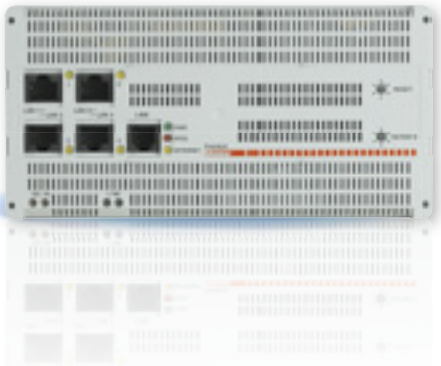
MyHome portal page

Authentication page

MODEM ROUTER

In addition to the settings for the connection to the ADSL line and the LAN NETWORK of the home, this device must also be correctly natted using the configuration software supplied as standard.
When using modem routers not supplied by BTicino, these must be natted following the table shown on the side.

Modem Router F444U4



IP_WAN PORT	IP LAN PORT	PROTOCOL	DESCRIPTION
443	443	Tcp	http server (SSL)
20000	20000	Tcp	Open server

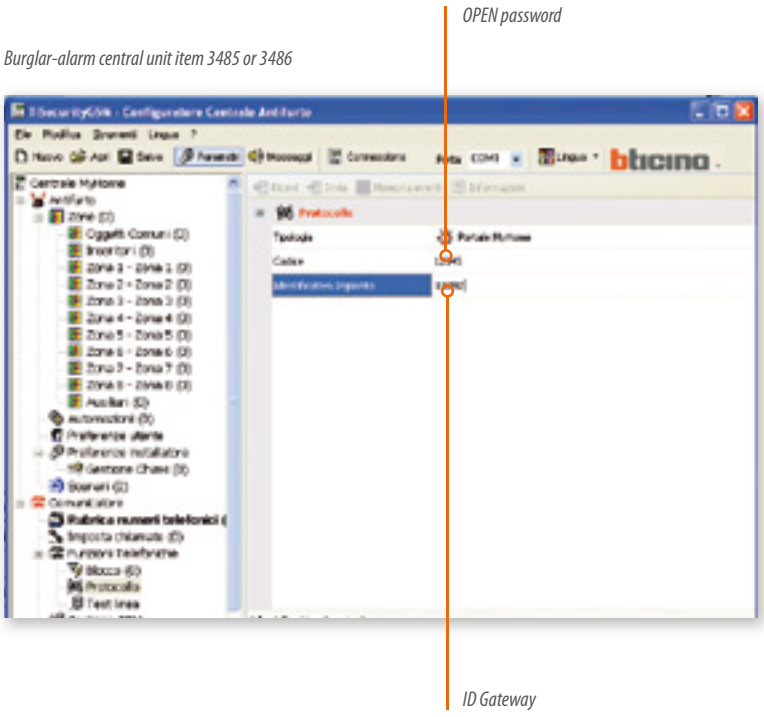
Note: if the ports indicated are occupied for other functions, it will be possible to select other ones using the configuration software of the Modem Router.
Warning: The support and the configuration for the devices of the LAN NETWORK, like for example the modem router not included in the BTicino Catalogue, or network firewall devices (hardware and software), are not the responsibility of BTicino. In case of intervention by a BTicino engineer, good communication between the control device and the portal will be certified only using the products included in the Catalogue.

BURGLAR-ALARM CENTRAL UNIT ITEM 3485 OR 3486

In order to enable the central unit for use as control device for the portal, it will be necessary to enter the following data in the "Portal Services" menu item of the configuration program of the central units:

- Jolly number: enter the telephone number for the connection to the portal (800 029 498).
- System ID: enter the Gateway ID number automatically generated by the portal during the configuration of the control device.
- Code: enter the OPEN password entered in the portal during the configuration of the control device.

Burglar-alarm central unit item 3485 or 3486



Open WEB NET language and MY OPEN Community

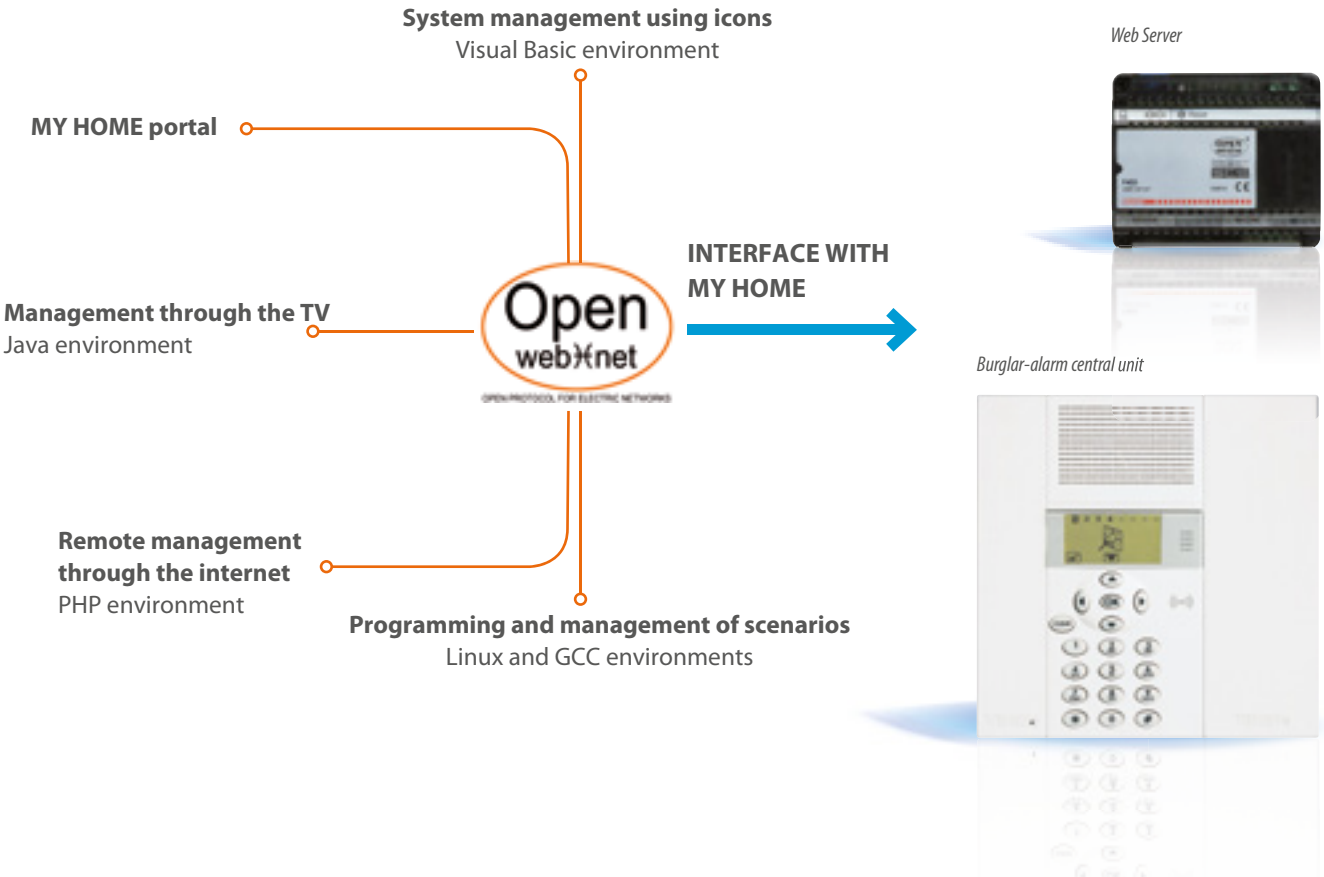
The previous pages describe how the integration among the various functions of Comfort, Safety and Savings offered by MY HOME enables the user to take advantage of the actual home automation benefits.
In this context, more and more sought after are becoming the tools for ensuring "communication" between the MY HOME system and other systems using modes other than the ones discussed until now in this guide.
Some examples:

- The use of third party software for the control of the MY HOME functions using devices such as I-PHONE, I-PAD and Smartphone;
- The integration with MY HOME of devices appropriately configured for the management of lights and shutters by disabled people;
- The customisation of the H/L4684 Touch Screen icons for hotel applications, or for use in public establishments and showrooms;
- The creation of interfaces for the control of the light flow and the colour tone of RGB LED low consumption lamps.

The above is only a part of the many possibilities of customising MY HOME, and of integrating it with other systems and applications.
In order to enable field operators to develop further solutions meeting more and more the needs of the customer, BTicino has decided to make the Open Web Net language available through the My Open Community.

THE OPEN (OPEN PROTOCOL FOR ELECTRICAL NETWORK) WEB NET LANGUAGE

For some years BTicino has decided to make the Open Web Net language available. This is a high level protocol that can be used to control the devices and exploit their potential based on the requirements of the customers.
The protocol has been designed to be independent from the communication support: it is possible to control and monitor the MY HOME system through the Ethernet network, through an RS232 serial connection, through a USB connection, or through a Gateway directly connected to the system.



MY OPEN COMMUNITY:

Created in 2006 by BTicino, it's a virtual community that through the http://www.myopenlegrandgroup.com website offers installers, software developers, and system integrators several services: upload and download spaces, development and actual application tools, newsletters and information on events.

It is also a platform capable of providing information on the MY HOME system and the development products available, including any relevant support documentation, as well as managing a forum, always active and lively, that provides continuous exchange of knowledge and experiences in the Open Web Net language field.

For more information visit

http://www.myopen-legrandgroup.com

TOOLS AND DEVELOPMENT TOOLS FOR OPEN WEB NET APPLICATIONS

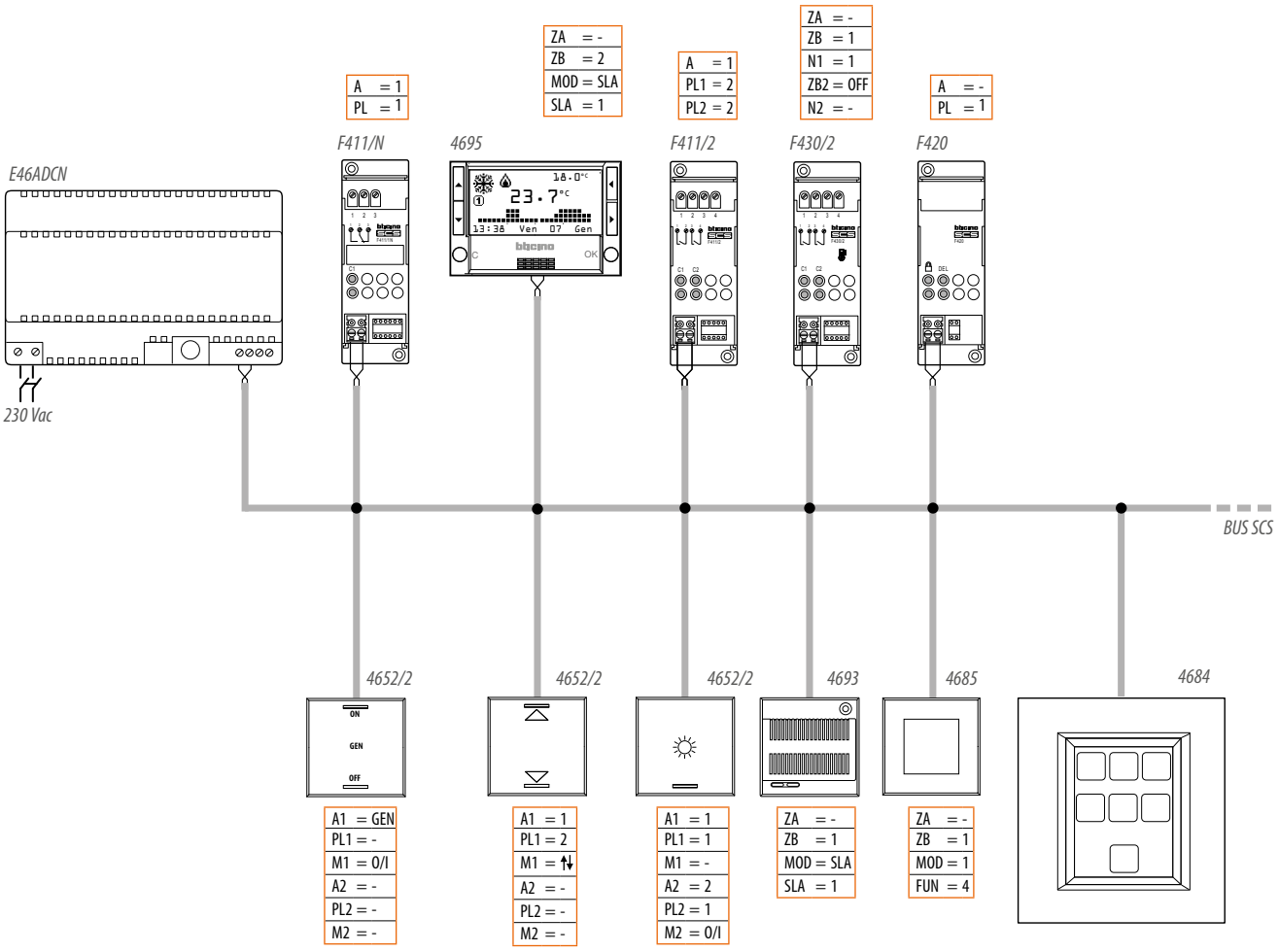
For the development of the applications using the Open Web Net language, BTicino has created two dedicated tools:

- 3504SDK Startkit:
  Product designed for system integrators and developers who want to get closer to MY HOME, Starkit is a functioning miniaturised MY HOME system, which includes 4 light points, 2 shutters and 1 camera.
- L4684SDK touch Screen:
  By connecting this device with IP port and slave USB to a PC for programming purposes, it will be possible to create configuration files with customised icons, to be used with L4684 touch screens. Thanks to the versatility of the Open language, it will therefore be possible to manage, in addition to MY HOME devices, also devices from other brands performing different functions.

Integration of the Automation system with the Temperature Control system

The system includes a Local Display and a Touch Screen.

- The Local Display is configured for the management of the temperature control and is associated to the sensor (ZA = 0, ZB = 1)
- The Touch Screen is configured using the software and is capable of managing all the functions present, and the scenarios saved in the scenario module.

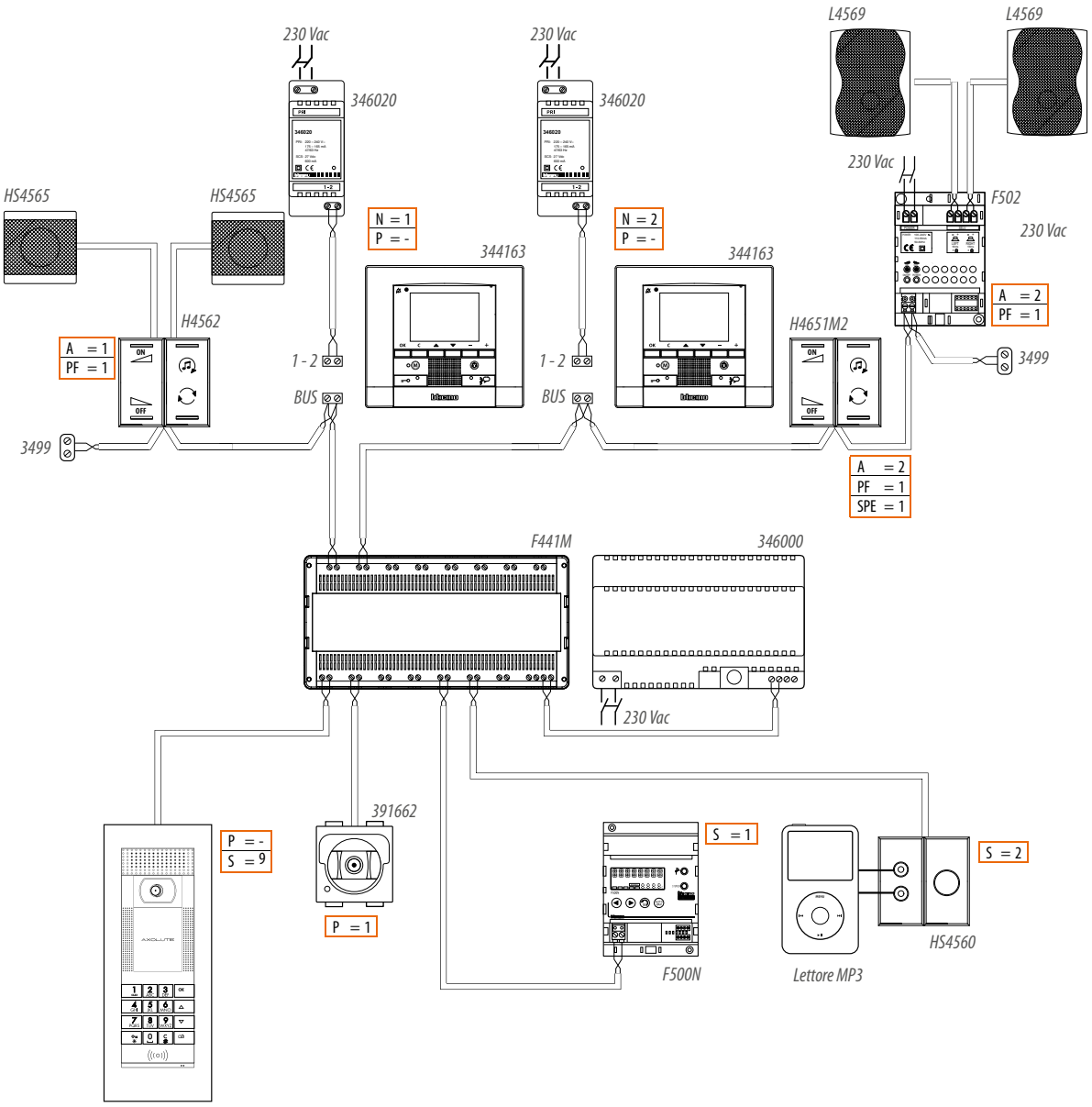


ITEM	DESCRIPTION	QUANTITY
F420	Scenario module	1
E46ADCN	Power supply	1
F430/2	DIN actuator	1
F415	Dimmer	1
F411/1N	1 relay DIN actuator	1
F411/2	2 relays DIN actuator	1
H4652/2	Control	3
HC4685	Local Display	1
H4684	Touch Screen	1
H4693	Temperature control probe	1
H4695	Temperature central unit	1

Integration of the Video door entry system with the Sound system

The integrated system includes:

- Two Video Displays for the reception of entrance panel calls, and for the management of the Sound system functions.
- An H4651M2 special control configured for controlling the amplifier with address A = 2 PF =1.



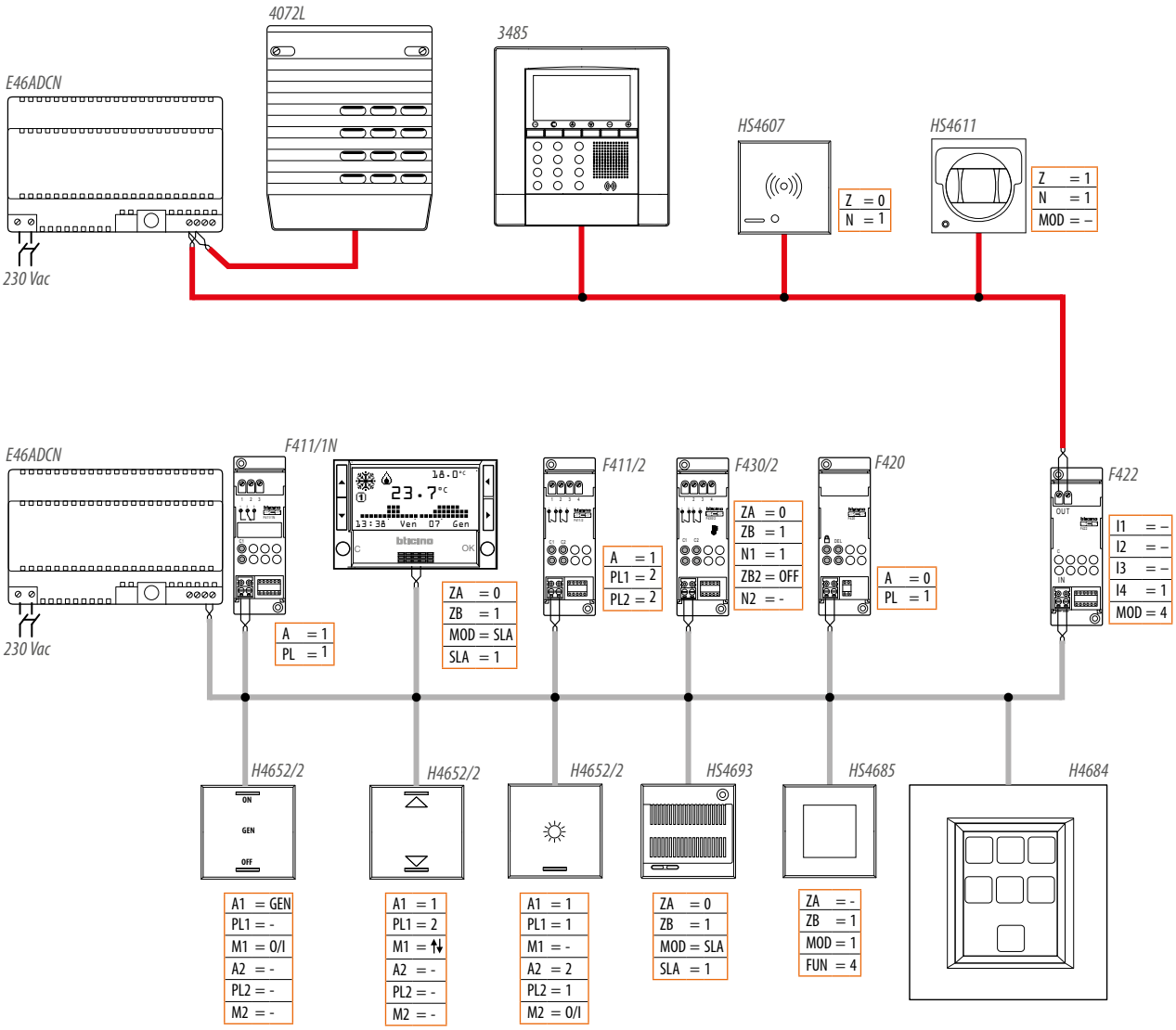
ITEM	DESCRIPTION	QUANTITY
F441M	Multichannel matrix	1
F502	DIN amplifier	1
3499	Line termination	2
L4569	Loudspeaker	3
345140	Axolute entrance panel	1
F500N	DIN radio	1
346000	Power supply	1

ITEM	DESCRIPTION	QUANTITY
346020	Power supply	2
H4651M2	Control	1
HS4560	RCA input	1
H4562	Flush mounted amplifier	1
HS4565	Flush mounted loudspeaker	2
344163	Video Display	2
391662	Flush mounted camera	1

Integration of the Burglar-alarm system with the Automation and Temperature Control systems

The integrated system includes the following control and management devices:

- A Local Display, configured for the management of the temperature control, and associated to the sensor (ZA = 0, ZB = 1)
- A Touch Screen configured for the management of all the functions present and the scenarios; it can also be used for enabling/disabling the Burglar-alarm system and separate the protected zones.
- A Burglar-alarm central unit configured for activating automations (switching on of lights) in case of an alarm event



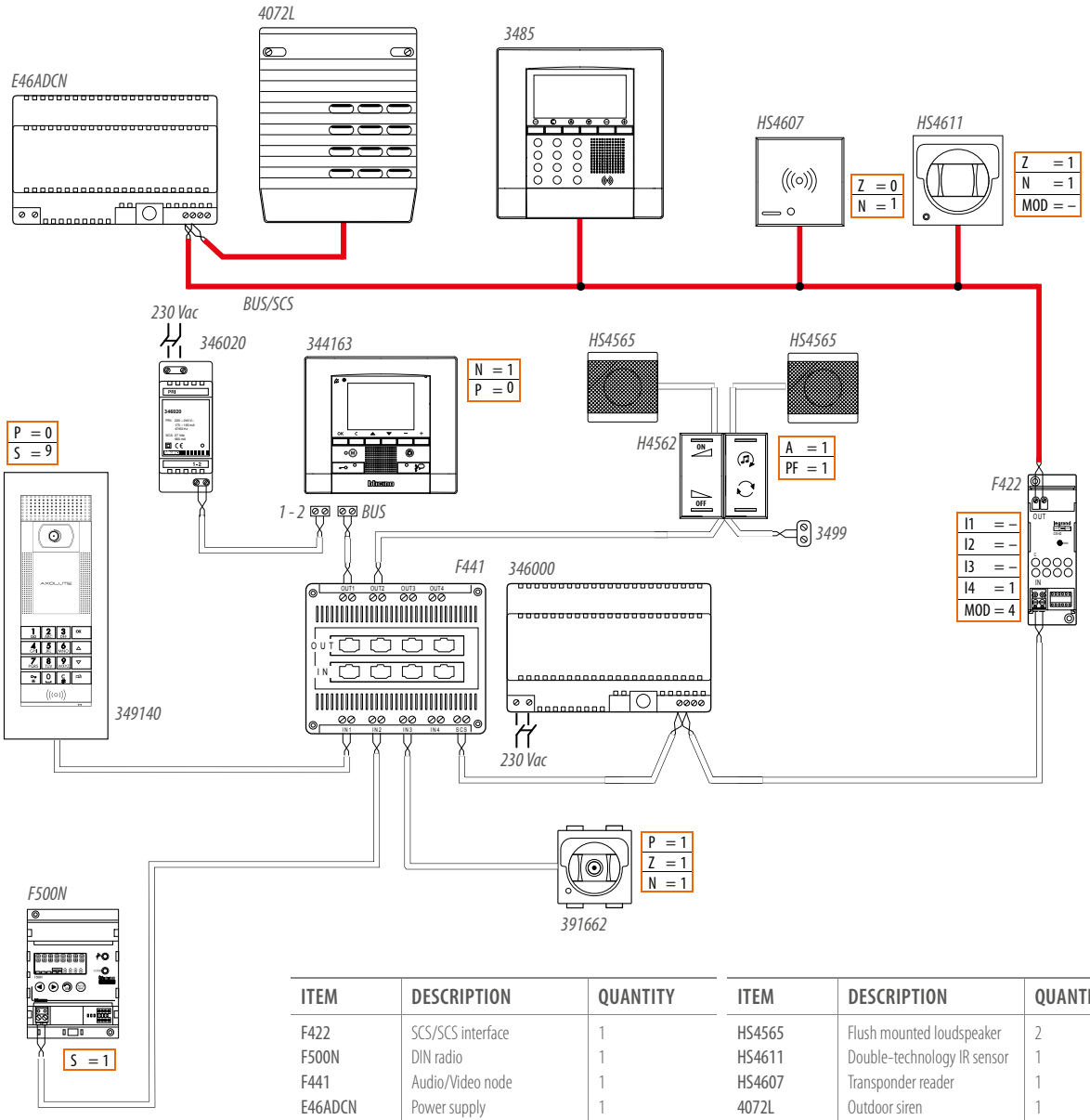
ITEM	DESCRIPTION	QUANTITY
E46ADCN	Power supply	1
E47ADCN	Power supply	1
F422	SCS/SCS interface	1
F430/2	DIN actuator	1
F414	DIN dimmer	1
F411/1N	1 relay DIN actuator	1
F411/2	2 relays DIN actuator	1
H4652/2	Control	3

ITEM	DESCRIPTION	QUANTITY
F420	Scenario module	1
HS4685	Local display	1
H4684	Touch screen	1
HS4693	Temperature control probe	1
HS4611	Double-technology IR sensor	1
HS4607	Transponder reader	1
4072L	Outdoor siren	1
3485	Central unit	1

Integration of the Burglar-alarm system with the Video door entry system and the Sound system

The integrated system includes the following control and management devices:

- A Video Display for monitoring and controlling the home entrance and manage the Sound system; it can also be used to check the status of the Burglar-alarm system and notify alarm events.
- A camera configured for use with the Burglar-alarm IR sensor of zone 1 (Z = 1).
- When an alarm condition occurs within the zone, the camera activates and sends the images to the Video display (N = 1), on which they can be displayed.



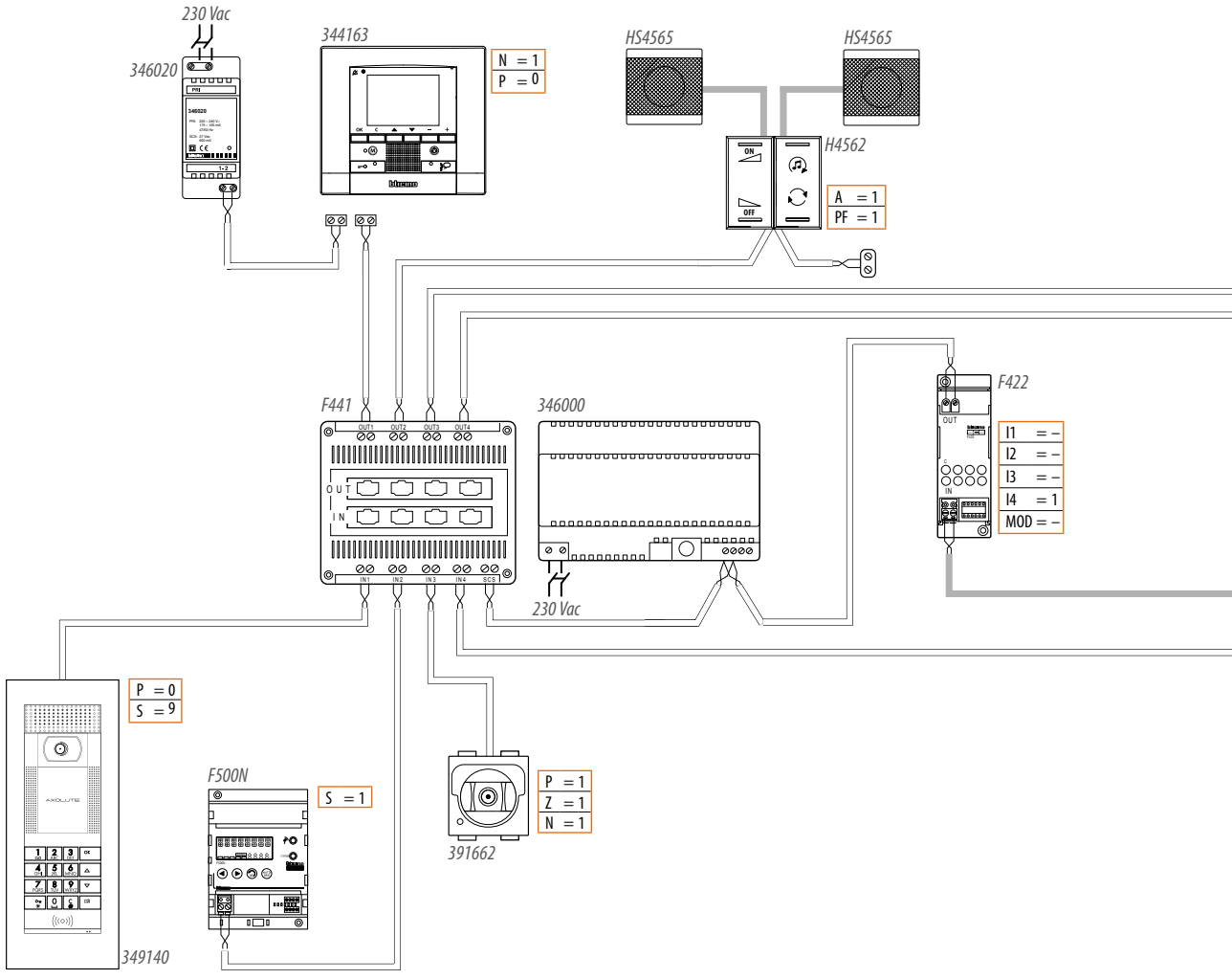
ITEM	DESCRIPTION	QUANTITY
F422	SCS/SCS interface	1
F500N	DIN radio	1
F441	Audio/Video node	1
E46ADCN	Power supply	1
346000	Power supply	1
346020	Power supply	1
H4562	Flush mounted amplifier	1
HS4565	Flush mounted loudspeaker	2

ITEM	DESCRIPTION	QUANTITY
HS4565	Flush mounted loudspeaker	2
HS4611	Double-technology IR sensor	1
HS4607	Transponder reader	1
4072L	Outdoor siren	1
3485	Central unit	1
344163	Video Display	1
391662	Flush mounted camera	1

Integration of the Automation system with the Video door entry system (with Web server for remote control)

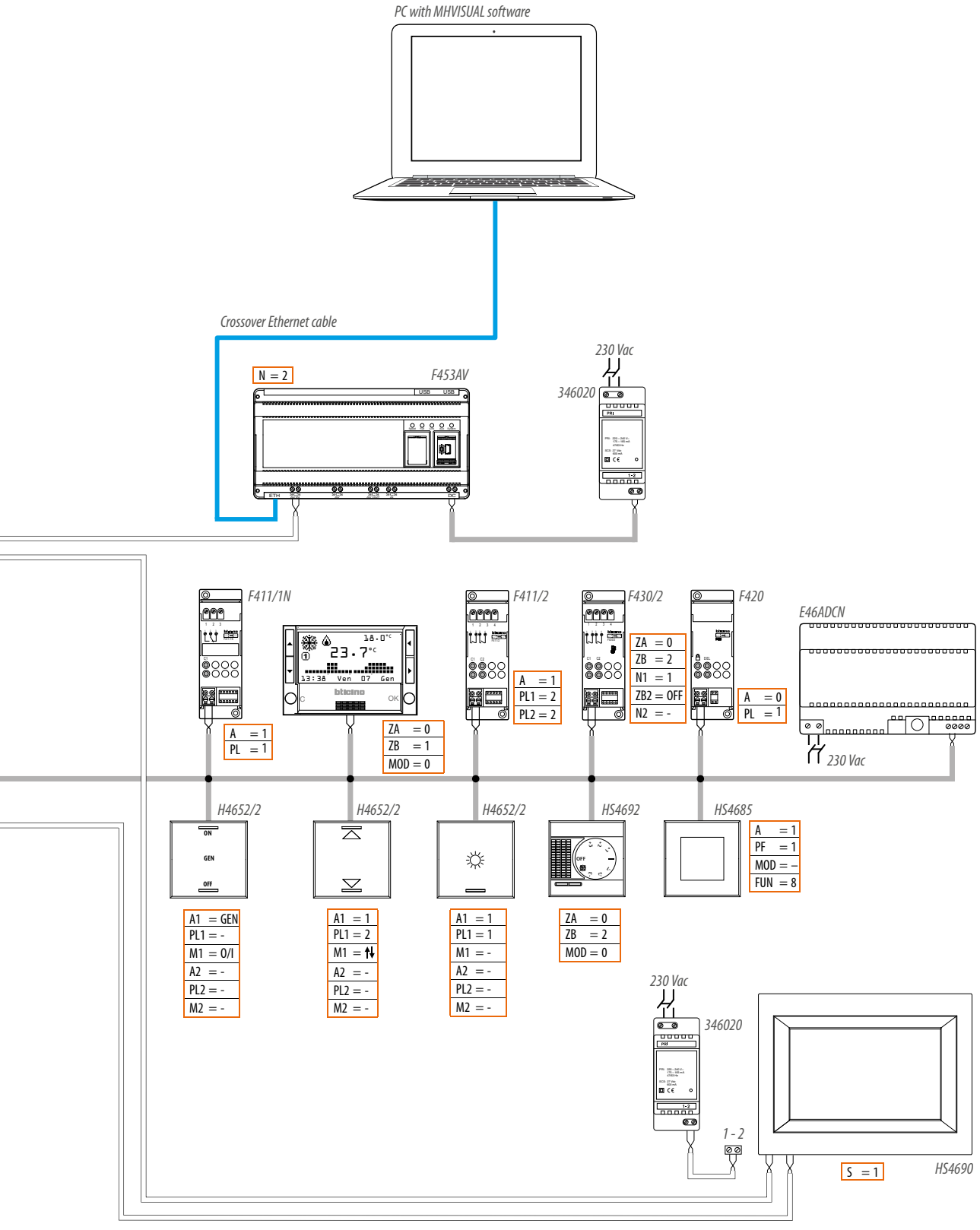
For the control and management of the functions, the following modes and devices are used:

- A Personal Computer with MHVISUAL software for the full control of all the home functions.
- A Video Display with icon menu.
- The Multimedia Touch Screen device, which operates as a video door entry system handset and a device for the control of the whole system using the icon menu.
- A Local Display configured for the management of the Sound system amplifier with address A=1 PF=1.



ITEM	DESCRIPTION	QUANTITY
F420	Scenario module	1
E46ADCN	Power supply	1
F422	SCS/SCS interface	1
F430/2	DIN actuator	1
F414	DIN dimmer	1
F411/1N	1 relay DIN actuator	1
F411/2	2 relays DIN actuator	1
F500N	DIN radio	1
F453AV	Web Server	1
F441	Audio/Video node	1
349140	Axolute entrance panel	1

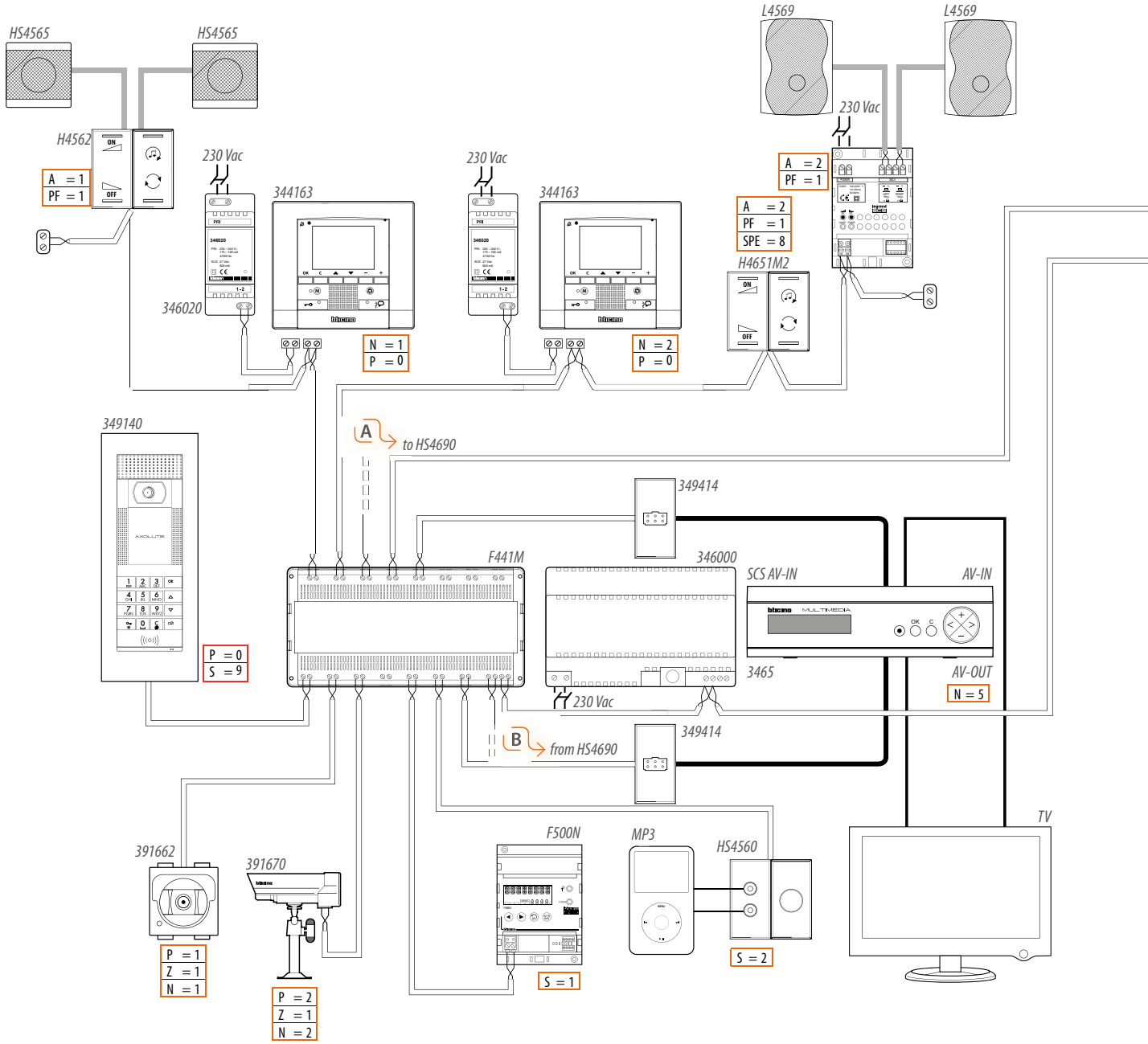
ITEM	DESCRIPTION	QUANTITY
346000	Power supply	1
346020	Power supply	3
H4652/2	Control	3
HS4685	Local display	1
HS4690	Multimedia Touch Screen	1
H4562	Flush mounted amplifier	1
HS4565	Flush mounted loudspeaker	2
HS4692	Temperature probe	1
344163	Video Display	1
391662	Flush mounted camera	1

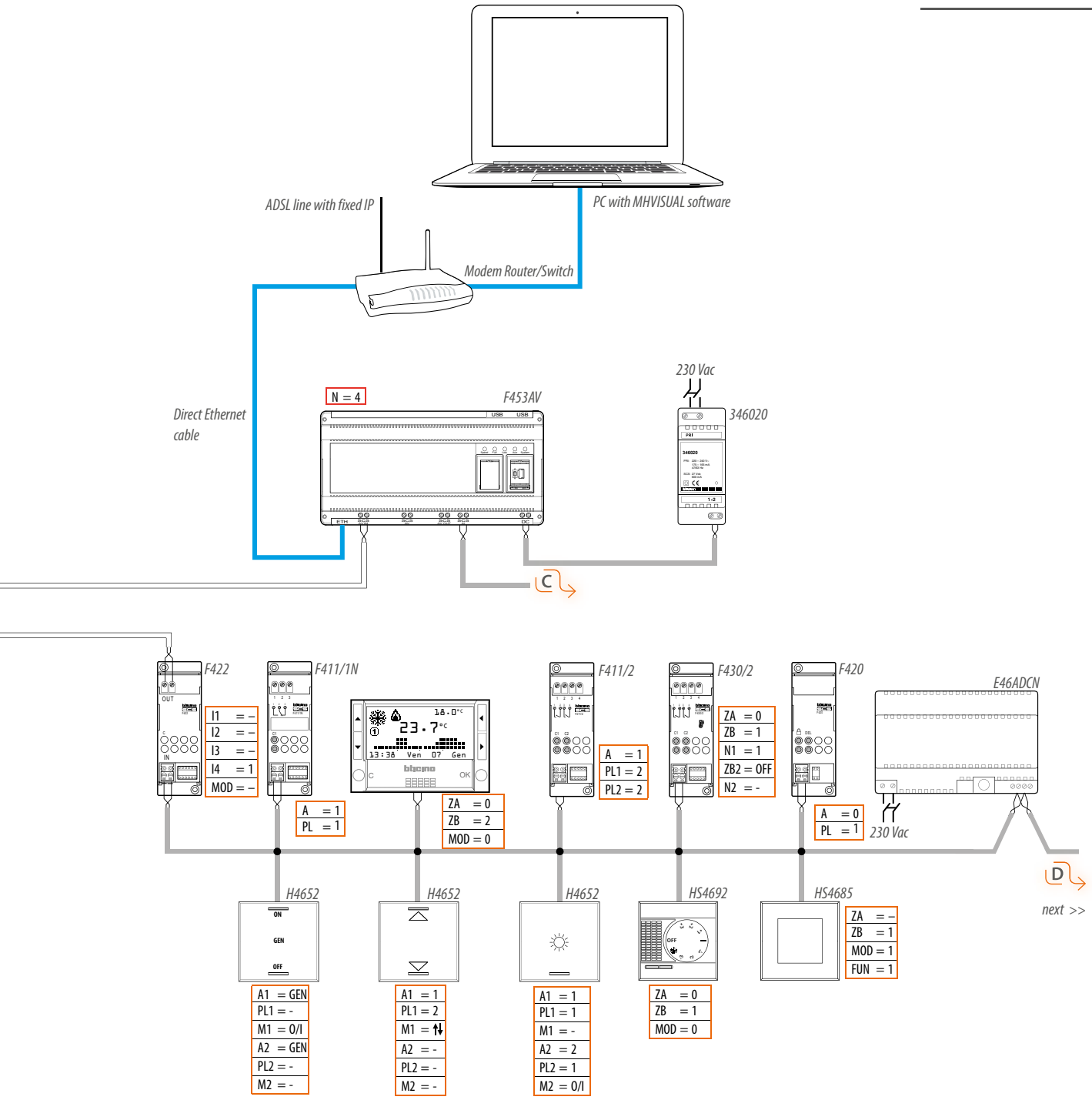

PC with MHVISUAL software
Crossover Ethernet cable
N = 2
F453AV
230 Vac
346020
F411/1N
A = 1
PL = 1
ZA = 0
ZB = 1
MOD = 0
F411/2
A = 1
PL1 = 2
PL2 = 2
F430/2
ZA = 0
ZB = 2
N1 = 1
ZB2 = OFF
N2 = -
F420
A = 0
PL = 1
E46ADCN
230 Vac
H4652/2
A1 = GEN
PL1 = -
M1 = O/I
A2 = -
PL2 = -
M2 = -
H4652/2
A1 = 1
PL1 = 2
M1 =
A2 = -
PL2 = -
M2 = -
H4652/2
A1 = 1
PL1 = 1
M1 = -
A2 = -
PL2 = -
M2 = -
HS4692
ZA = 0
ZB = 2
MOD = 0
HS4685
A = 1
PF = 1
MOD = –
FUN = 8
230 Vac
346020
1 - 2
S = 1
HS4690

Total integration of the MY HOME systems with remote function control

The control of the MY HOME functions is performed with the following devices:

- A Web Server for the local control of the system, using a Personal Computer with MHVISUAL software.
  If the system includes a modem router, the program may also be used to manage the remote control through the internet.
- A multimedia interface for the control of the MY HOME functions through an icon menu that can be displayed on the home television set.
- A Local Display to recall all scenarios saved in the F420 scenario module.

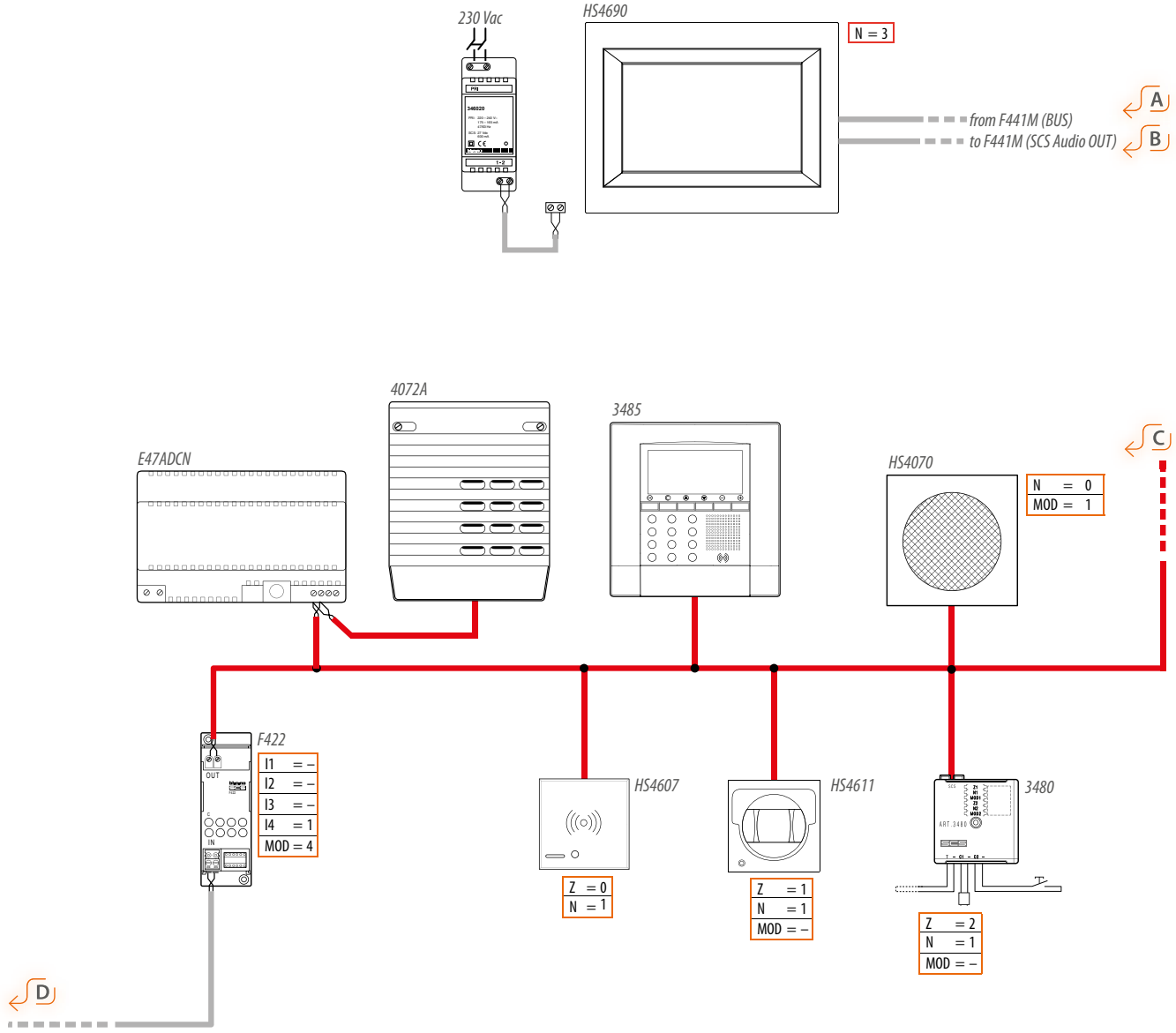




ITEM	DESCRIPTION	QUANTITY
F420	Scenario module	1
E46ADCN	Power supply	1
F422	SCS/SCS interface	1
F430/2	DIN actuator	1
F441M	Multichannel matrix	1
F502	DIN amplifier	1
3499	Line terminator	2
F414	DIN dimmer	1
F411/1N	1 relay DIN actuator	1
F411/2	2 relays DIN actuator	1
HS4565	Loudspeaker	2
F500	DIN radio	1
F453AV	Web Server	1

ITEM	DESCRIPTION	QUANTITY
3465	Multimedia interface	1
349414	Connector	2
346000	Power supply	1
346020	Power supply	2
H4652/2	Control	3
H4651M2	Special control	1
H4685	Local display	1
HS4650	RCA input	1
H4562	Flush mounted amplifier	1
L4569	Loudspeaker	2
HS4692	Temperature control probe	1
344163	Video Display	2
391662	Flush mounted camera	1
391670	Outdoor camera	1

Total integration of the MY HOME systems with remote function control



ITEM	DESCRIPTION	QUANTITY
F422	SCS/SCS interface	1
E47ADCN	Power supply	1
346020	Power supply	1
HS4690	Multimedia Touch Screen	1
HS4611	Double-technology IR sensor	1
HS4607	Transponder reader	1
3480	Contact interface	1
HS4070	Indoor siren	1
3485	Central unit	1
4072A	Outdoor siren	1